

SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

QuickSpray Supreme HE Komp. A

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

1.2.1 Relevant uses

Hardener
Coating agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Voelkel Industrie Produkte GmbH
Frauenstrasse 31
82216 Maisach / GERMANY
Phone +49 (0) 8141 35 549 0
Fax +49 (0) 8141 35 549 99
Homepage www.vip-gmbh.com
E-mail info@vip-gmbh.com

Address enquiries to

Technical information info@vip-gmbh.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency phone

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

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

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Xn, Harmful - R 20: Harmful by inhalation.
Xi, Irritant - R 36/37/38: Irritating to eyes, respiratory system and skin.
Xn, carcinogen category 3 - R 40: Limited evidence of a carcinogenic effect.
Sensitizing. - R 42/43: May cause sensitisation by inhalation and skin contact.
Xn, Harmful - R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.

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2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Contains:

Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane

4,4'-Methylenediphenyl diisocyanate

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate

Hazard statements

H351 Suspected of causing cancer.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure through inhalation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

Precautionary statements

P260 Do not breathe vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water/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.

P311 Call a POISON CENTER/doctor.

Special labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Physico-chemical hazards

Reactions with water, with formation of carbon dioxide.

Development of pressure and risk of bursting in closed containers.

This reaction is accelerated by elevated temperatures.

Other hazards

Further hazards were not determined with the current level of knowledge.

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
60 - 100	Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane CAS: 157937-75-2, EINECS/ELINCS: Polymer GHS/CLP: Acute Tox. 4: H332 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Resp. Sens. 1: H334 - Skin Sens. 1: H317 - Carc. 2: H351 - STOT SE 3: H335 - STOT RE 2: H373 EEC: Xn, R 40-20-48/20-42/43-36/37/38
13 - 30	4,4'-Methylenediphenyl diisocyanate CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, ECB-Nr.: 01-2119457014-47-XXXX GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H332 - STOT RE 2: H373 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Resp. Sens. 1: H334 - Skin Sens. 1: H317 EEC: Xn, R 20-36/37/38-40-42/43-48/20
3 - 7	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate EINECS/ELINCS: 905-806-4, ECB-Nr.: 01-2119457015-45-XXXX GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H332 - STOT RE 2: H373 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Resp. Sens. 1: H334 - Skin Sens. 1: H317 EEC: Xn, R 20-36/37/38-40-42/43-48/20

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.
Supply with medical care.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions
Redness
Cough

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry powder.
Carbon dioxide.
Foam.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NO_x).
Hydrogen cyanide (HCN).
Not combusted hydrocarbons.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Wear full protective suit.
Heat causes increase in pressure and risk of bursting - Keep away from the container.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use breathing apparatus if exposed to vapours/aerosol.
Use personal protective equipment.
Remove persons to safety.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed areas.
Vacuuming in situ required.

Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
Showers and eye wash stations should be provided.
Clean skin thoroughly after work, apply skin cream.
Use barrier skin cream.



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7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store with amines
Do not store together with acids.
Do not store with alkalis.
Keep away from water.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place. Store in a dry place.
Protect from heat/overheating and from sun.
Recommended storage temperature: 16 - 38°C
Storage class 10 (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
3 - 7	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
	EINECS/ELINCS: 905-806-4, ECB-Nr.: 01-2119457015-45-XXXX
	Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
	Short-term exposure (15-minute): 0,07 mg/m ³
13 - 30	4,4'-Methylenediphenyl diisocyanate
	CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, ECB-Nr.: 01-2119457014-47-XXXX
	Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
	Short-term exposure (15-minute): 0,07 mg/m ³

DNEL

Range [%]	Substance
13 - 30	4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
	Industrial, dermal, Acute - local effects: 28,7 mg/cm ² .
	Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ .
	Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
	Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
	Industrial, dermal, Acute - systemic effects: 50 mg/kg.
3 - 7	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
	Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
	Industrial, dermal, Acute - systemic effects: 50 mg/kg bw/d.
	Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ .
	Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ .
	Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
	Industrial, dermal, Acute - local effects: 28,7 mg/cm ² .
	general population, oral, Acute - systemic effects: 20 mg/kg bw/d.
	general population, dermal, Acute - systemic effects: 25 mg/kg bW/d.
	general population, dermal, Acute - local effects: 17,2 mg/cm ² .
	general population, inhalative, Acute - systemic effects: 0,05 mg/m ³ .
	general population, inhalative, Acute - local effects: 0,05 mg/m ³ .
	general population, inhalative, Long-term - systemic effects: 0,025 mg/m ³ .
	general population, inhalative, Long-term - local effects: 0,025 mg/m ³ .

PNEC

Range [%]	Substance
13 - 30	4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
	sewage treatment plants (STP), > 1 mg/l.
	soil, > 1 mg/kg.
	seawater, > 0,1 mg/l.
	freshwater, > 1 mg/l.
3 - 7	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
	sewage treatment plants (STP), 1 mg/l.
	soil, 1 mg/kg.
	seawater, 0,1 mg/l.
	freshwater, 1 mg/l.

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Using suitable discharges or exhaust ventilation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374). In splash contact Butyl rubber, >60 min (EN 374).
Skin protection	Protective overalls.
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, filter A.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	yellowish
Odor	musty
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	ca. 293
Flash point [°C]	ca. 227
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,11-1,15 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	1500-1900 mPas (25°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alkalis (lyes).

Reactions with amines.

Reactions with acids.

Reactions with alcohols.

Reactions with water, with formation of carbon dioxide.

10.4 Conditions to avoid

Warming

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
13 - 30	4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
	inhalative, Conversion value: 1,5 mg/l/4h (Dust/mist).
	LD50, dermal, Rabbit: > 9400 mg/kg (OECD 402).
	LD50, oral, Rat: > 2000 mg/kg.
	LC50, inhalativ (mist), Rat: 0,49 mg/l/4h.
	LC50, inhalative, Rat: > 2,24 mg/l/1h (OECD 403).
	LC50, inhalative, Rat: 0,368 mg/l/4h (OECD 403).
3 - 7	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
	LD50, oral, Rat: > 10000 mg/kg.
	LD50, dermal, Rabbit: > 9400 mg/kg.
	LC50, inhalativ (mist), Rat: 0,49 mg/l/4h.
	NOAEL, Rat: 12 mg/m ³ (OECD 414).
60 - 100	Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane, CAS: 157937-75-2
	LD50, oral, Rat: > 10000 mg/kg.
	LD50, intraperitoneal, Rabbit: 100 mg/kg.
	LD50, dermal, Rabbit: > 9400 mg/kg.
	LC50, inhalativ (mist), Rat: 0,49 mg/l/4h.
	NOAEL, Rat: 12 mg/m ³ (OECD 414).

Serious eye damage/irritation	Irritant
Skin corrosion/irritation	Irritant
Respiratory or skin sensitisation	Sensitizing.
Specific target organ toxicity — single exposure	May cause damage to organs through single exposure.
Specific target organ toxicity — repeated exposure	May cause damage to organs through prolonged or repeated exposure through inhalation
Mutagenicity	There is no evidence of any mutagenic effects.
Reproduction toxicity	not determined
Carcinogenicity	This product contains one or more substance(s) of categorie Carc. 2 (CLP).
General remarks	

Toxicological data of complete product are not available.
The product was classified on the basis of the calculation procedure of the preparation directive.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
13 - 30	4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
	LC50, (96h), Danio rerio: > 1000 mg/l (OECD 203).
	ErC50, (72h), Scenedesmus subspicatus: > 1640 mg/l (OECD 201).
3 - 7	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
	LC50, (96h), fish: > 1000 mg/l (OECD 203).
	EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202).
	EC50, (3h), Bacteria: > 100 mg/l (OECD 209).
	NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 211).
60 - 100	Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane, CAS: 157937-75-2
	EC50, (96h), fish: > 1000 mg/l (OECD 203).
	EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202).
	EC50, (3h), Bacteria: > 100 mg/l (OECD 209).
	NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 211).

12.2 Persistence and degradability

BOD 5: 200 (CAS 157937-75-2, EG 905-806-4)

Behaviour in environment compartments

not determined

Behaviour in sewage plant

not determined

Biological degradability

The product is not biodegradable.
28d, 0% (OECD 302C)(CAS 157937-75-2, EG 905-806-4)

12.3 Bioaccumulative potential

logPow: 4,51 (CAS 157937-75-2, EG 905-806-4)

12.4 Mobility in soil

The product is insoluble in water.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
For recycling, consult manufacturer.

Waste no. (recommended) 080501*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code)

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (1999/13/CE)	not determined

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 40: Limited evidence of a carcinogenic effect.
R 20: Harmful by inhalation.
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
R 42/43: May cause sensitisation by inhalation and skin contact.
R 36/37/38: Irritating to eyes, respiratory system and skin.

16.2 Hazard statements (SECTION 3)

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

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16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV@/TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.4 Other information

Customs Tariff

not determined

Classification procedure

Carc. 2: H351 Suspected of causing cancer. (Calculation method)
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
EUH204 Contains isocyanates. May produce an allergic reaction.

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Modified position

SECTION 2 been added: This reaction is accelerated by elevated temperatures.

SECTION 2 been added: Development of pressure and risk of bursting in closed containers.

SECTION 2 been added: Reactions with water, with formation of carbon dioxide.

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4 been added: If eye irritation persists: Get medical advice/attention.

SECTION 4 been added: Take off contaminated clothing and wash before reuse.

SECTION 4 been added: Remove the victim into fresh air and keep him calm.

SECTION 4 been added: Supply with medical care.

SECTION 4 been added: Allergic reactions

SECTION 4 been added: Redness

SECTION 4 been added: Cough

SECTION 7 been added: Take off contaminated clothing and wash before reuse.

SECTION 8 been added: If ventilation insufficient, wear respiratory protection.

SECTION 8 been added: Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 10 been added: Warming

SECTION 11 been added: There is no evidence of any mutagenic effects.

SECTION 11 been added: Irritant

SECTION 11 been added: Irritant

SECTION 11 been added: Sensitizing.

SECTION 11 been added: May cause damage to organs through single exposure.

SECTION 11 been added: May cause damage to organs through prolonged or repeated exposure through inhalation

SECTION 11 been added: Toxicological data of complete product are not available.

SECTION 11 been added: The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 11 been added: This product contains one or more substance(s) of categorie Carc. 2 (CLP).

SECTION 12 been added: not applicable

SECTION 12 been added: Ecological data of complete product are not available.

SECTION 12 been added: BOD 5: [x]

SECTION 12 been added: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12 been added: The product is not biodegradable.

SECTION 15 been added: For this product a chemical safety assessment has not been carried out.

SECTION 16 been added: Calculation method

SECTION 16 been added: Observe employment restrictions for mothers-to-be and nursing mothers.

SECTION 16 been added: Observe employment restrictions for young people.

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