

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

1.1 Product identifier

QSP Supreme W 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 telephone number

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.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H335 May cause respiratory 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 Directive 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.

Safety Data Sheet 1907/2006/EC - REACH (GB)
QSP Supreme W Komp. A

Date printed 07.04.2015, Revision 07.04.2015

Version 01

Page 2 / 12

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:

o-(p-isocyanatobenzyl)phenyl isocyanate
 4,4'-Methylenediphenyl diisocyanate
 2,2'-methylenediphenyl diisocyanate

Hazard statements

H351 Suspected of causing cancer.
 H332 Harmful if inhaled.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory 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 mist / vapours / spray.
 P280 Wear protective gloves / protective clothing / eye protection / face protection.
 P284 In case of inadequate ventilation 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

Other hazards

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

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
35 - 60	o-(p-isocyanatobenzyl)phenyl isocyanate CAS: 5873-54-1, EINECS/ELINCS: 227-534-9, EU-INDEX: 615-005-00-9, ECB-Nr.: 01-2119480143-45-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
15 - 40	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
0,1 - < 1	2,2'-methylenediphenyl diisocyanate CAS: 2536-05-2, EINECS/ELINCS: 219-799-4, EU-INDEX: 615-005-00-9, ECB-Nr.: 01-2119927323-43-XXXX 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 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. Consult a doctor immediately.
Skin contact	In the event of contact with the skin wash immediately with polyethylene glycol, then with plenty of 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 mouth. Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

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	foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x).
Isocyanate
Hydrogen cyanide (HCN).
Tetrahydrofuran

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
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 personal protective equipment.
Use breathing apparatus if exposed to vapours/aerosol.
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.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within 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.
Provide suitable vacuuming at the processing area.
Avoid spilling or spraying in enclosed areas.
The product is combustible.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
It is recommended to preview eye-wash bottle and showers.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Keep only in original container.
Do not store with amines
Keep away from water.
Do not store together with oxidizing agents.
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.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
35 - 60	o-(p-isocyanatobenzyl)phenyl isocyanate
	CAS: 5873-54-1, EINECS/ELINCS: 227-534-9, EU-INDEX: 615-005-00-9, ECB-Nr.: 01-2119480143-45-XXXX
	Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
	Short-term exposure (15-minute): 0,07 mg/m ³
15 - 40	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
0,1 - < 1	2,2'-methylenediphenyl diisocyanate
	CAS: 2536-05-2, EINECS/ELINCS: 219-799-4, EU-INDEX: 615-005-00-9, ECB-Nr.: 01-2119927323-43-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
0,1 - < 1	2,2'-methylenediphenyl diisocyanate, CAS: 2536-05-2
	Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
	Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ .
	Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ .
	Industrial, dermal, Acute - local effects: 28,7 mg/cm ² .
	Industrial, dermal, Acute - systemic effects: 50 mg/kg.
	Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
35 - 60	o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
	Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ .
	Industrial, dermal, Acute - local effects: 28,7 mg/cm ² .
	Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ .
	Industrial, dermal, Acute - systemic effects: 50 mg/kg.
	Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
	Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
15 - 40	4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
	Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ .
	Industrial, dermal, Acute - systemic effects: 50 mg/kg.
	Industrial, inhalative, Acute - local 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 - local effects: 28,7 mg/cm ² .

PNEC

Range [%]	Substance
0,1 - < 1	2,2'-methylenediphenyl diisocyanate, CAS: 2536-05-2
	sewage treatment plants (STP), > 1 mg/l.
	soil, > 1 mg/kg.
	seawater, > 0,1 mg/l.
	freshwater, > 1 mg/l.
35 - 60	o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
	sewage treatment plants (STP), > 1 mg/l.

Safety Data Sheet 1907/2006/EC - REACH (GB)
QSP Supreme W Komp. A

Date printed 07.04.2015, Revision 07.04.2015

Version 01

Page 6 / 12

	soil, > 1 mg/kg.
	seawater, > 0,1 mg/l.
	freshwater, > 1 mg/l.
15 - 40	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.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Butyl rubber, >480 min (EN 374). Nitrile rubber, >480 min (EN 374). Viton, >480 min (EN 374). Polychloroprene, >480 min (EN 374).
Skin protection	Protective clothing.
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	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2.
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Viscous liquid
Color	yellow /orange
Odor	musty faintly
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not determined
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,10-1,14 (20 °C / 68,0 °F)
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	1000-2000 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.
In closed containers rise of pressure.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).
Polymerization may occur at elevated temperature.

10.3 Possibility of hazardous reactions

Reactions with water, with formation of carbon dioxide.
Reactions with strong oxidizing agents.
Exothermic reaction at:
Reactions with alcohols.
Reactions with amines.

10.4 Conditions to avoid

Strong heating.
Contact with moisture.

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
0,1 - < 1	2,2'-methylenediphenyl diisocyanate, CAS: 2536-05-2
	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, inhalative, Rat: 0,527 mg/l/4h (OECD 403).
35 - 60	o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
	inhalative, Conversion value: 1,5 mg/l/4h (Dust/mist).
	LD50, oral, Rat: > 2000 mg/kg.
	LD50, dermal, Rabbit: > 9400 mg/kg.
	LC50, inhalative, Rat: 0,387 mg/l/4h.
15 - 40	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).

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity Limited evidence of a carcinogenic effect.

General remarks The following applies to cyanogen compounds/ nitriles in general: utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration. Cardiovascular disorders, dyspnoea, unconsciousness.

Toxicological data of complete product are not available.

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
0,1 - < 1	2,2'-methylenediphenyl diisocyanate, CAS: 2536-05-2
	LC50, (96h), Danio rerio: > 1000 mg/l (OECD 203).
	EC50, (3h), Bacteria: > 100 mg/l (OECD 209).
	EC50, (72h), Scenedesmus subspicatus: > 1640 mg/l (OECD 201).
	EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202).
	NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 202).
35 - 60	o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1
	LC50, (96h), fish: > 1000 mg/l.
	EC50, (3h), Bacteria: > 100 mg/l (OECD 209).
	EC50, (24h), Daphnia magna: > 1000 mg/l.
	NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 202).
	ErC50, (72h), Scenedesmus subspicatus: > 1640 mg/l (OECD 201).
15 - 40	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).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The product is not biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation is potentially possible.

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.

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.
Coordinate disposal with the authorities if necessary.

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

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 MARPOL 73/78 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 (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
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 applicable

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

16.2 Hazard statements (SECTION 3)

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

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

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)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H335 May cause respiratory 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)

Modified position

none



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