

according to Regulation (EC) No 1907/2006

# alwitra Klebstoff PUR S750

Revision date: 07.12.2020

Product code: AWT-012

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

# 1.1. Product identifier

alwitra Klebstoff PUR S750

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

# Use of the substance/mixture

Used for bonding of fleece-backed EVALON® and EVALASTIC® roofing and sealing membranes

# Uses advised against

Only use for the intended purpose. The product is intended for professional use.

#### 1.3. Details of the supplier of the safety data sheet

Company name:	alwitra GmbH
Street:	Am Forst 1
Place:	D-54296 Trier-Irsch
Telephone:	0651 - 9102 - 0
e-mail (Contact person):	pm-ddb@alwitra.de
Responsible Department:	Produkt Management DDB
<u>1.4. Emergency telephone</u> number:	Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service.

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

"	
	Hazard categories:
	Aerosol: Aerosol 1
	Acute toxicity: Acute Tox. 4
	Skin corrosion/irritation: Skin Irrit. 2
	Serious eye damage/eye irritation: Eye Irrit. 2
	Respiratory or skin sensitisation: Resp. Sens. 1
	Respiratory or skin sensitisation: Skin Sens. 1
	Carcinogenicity: Carc. 2
	Specific target organ toxicity - single exposure: STOT SE 3
	Specific target organ toxicity - repeated exposure: STOT RE 2
	Hazard Statements:
	Extremely flammable aerosol.
	Pressurised container: May burst if heated.
	Harmful if inhaled.
	Causes skin irritation.
	Causes serious eye irritation.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May cause an allergic skin reaction.
	Suspected of causing cancer.
	May cause respiratory irritation.
	May cause damage to organs through prolonged or repeated exposure

May cause damage to organs through prolonged or repeated exposure.

# 2.2. Label elements

# Regulation (EC) No. 1272/2008

# Hazard components for labelling

Diphenylmethanediisocyanate - Isomers & Homologues

Signal word: Danger



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# Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
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.
H373	May cause damage to organs through prolonged or repeated exposure.

## **Precautionary statements**

ecautionaly statement	
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.
P331	Do NOT induce vomiting.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container according to regional/national regulations. Do not discard with household waste.

# Special labelling of certain mixtures

Contains isocyanates. May produce an allergic reaction.

# 2.3. Other hazards

EUH204

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Contains isocyanates. May produce an allergic reaction. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

Chemical characterization

adhesives.

Mixture of substances listed below with harmless additions.



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#### Hazardous components

CAS No	Chemical name		Chemical name			
	EC No	Index No	REACH No			
	GHS Classification					
9016-87-9	Diphenylmethanediisocyanate - Isomers & Homologues					
			01-2119457024-46			
	Carc. 2, Acute Tox. 4, Skin Irri 2; H351 H332 H315 H319 H3		1, Skin Sens. 1, STOT SE 3, STOT RE			
13674-84-5	Tris(2-chloro-1-methylethyl) pl	nosphate		10 - 20 %		
	237-158-7		01-2119486772-26			
	Acute Tox. 4; H302					
115-10-6	dimethyl ether	2,5-10 %				
	204-065-8	603-019-00-8	01-2119472128-37			
	Flam. Gas 1, Compressed gas					
75-28-5	isobutane	2,5-10 %				
	200-857-2	601-004-00-0				
	Flam. Gas 1, Compressed gas					
36483-57-5	2,2-dimethylpropan-1-ol, tribro	omo derivative		1 - < 5 %		
	253-057-0					
	Eye Irrit. 2; H319		·			
74-98-6	propane	1 - < 5 %				
	200-827-9	601-003-00-5				
	Flam. Gas 1, Compressed gas; H220 H280					

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

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection!

Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

# After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of doubt see doctor. If unconscious place in recovery position and seek medical advice.

# After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

### After contact with eyes

IF IN EYES: 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.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.



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# 4.2. Most important symptoms and effects, both acute and delayed

Cough, Dyspnoea, Asthmatic complaints, Headache. Allergic reactions, Redness, dryness, inflammation and cracking of the skin. Irritation of the respiratory system. Depression of the central nervous system.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

Treat symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

# Suitable extinguishing media

Carbon dioxide (CO2). Sand. Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

#### Unsuitable extinguishing media

High power water jet.

# 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Hydrogen chloride (HCI). Hydrocyanic acid (hydrocyanic acid).

Vapours can form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

#### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Suppress gases/vapours/mists with water spray jet.

Wear a self-contained breathing apparatus and chemical protective clothing.

## Additional information

Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

#### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Keep away from sources of ignition - No smoking.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation. Water, Ethanol, Ammonia (NH3) (45/50/5 vol.) Recommended cleaning agent: Acetone

#### 6.4. Reference to other sections

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

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Consider the usual precautions for handling chemicals.



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When using do not eat, drink or smoke.

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Ensure adequate ventilation of the storage area.

#### Hints on joint storage

Keep away from oxidizing agents and strongly acidic or alkaline materials.

## Further information on storage conditions

Protect from sunlight and heat sources. Avoid ignition sources.

# 7.3. Specific end use(s)

adhesives. Used for bonding of fleece-backed EVALON® and EVALASTIC® roofing and sealing membranes

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL

#### 8.2. Exposure controls

### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

#### Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs. Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact.

#### Eye/face protection

Tighty fitting safety glasses with side shields.

#### Hand protection

Protect skin by using skin protective cream. Wear suitable gloves.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended material: NBR (Nitrile rubber)

Thickness of glove material: >=0,5 mm.

## Skin protection

protection suit

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Recommended filtering device for short-term use: like: EN 14387, Filter type AX



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**SECTION 9: Physical and chemical properties** 

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not applicable

1,7 vol. % 18.6 vol. %

235 °C

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#### 9.1. Information on basic physical and chemical properties Physical state: Aerosol Colour: light green Odour: characteristic pH-Value: Changes in the physical state No data available Melting point: No data available Initial boiling point and boiling range: No data available Flash point: Flammability Solid: No data available Gas: No data available **Explosive properties** The product is not explosive, however, formation of explosive mixtures are possible. Lower explosion limits: Upper explosion limits: Ignition temperature: Auto-ignition temperature

No data available Solid: Gas: No data available No data available Decomposition temperature: **Oxidizing properties** No data available Density (at 20 °C): 1.06 g/cm<sup>3</sup> Water solubility: completely miscible Solubility in other solvents no data available Partition coefficient: No data available Viscosity / dynamic: not applicable No data available Vapour density: Solvent content: 0.6% 9.2. Other information

No data available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No dangerous reactivity under regular conditions.

#### 10.2. Chemical stability

The product is stable under regular conditions.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

# 10.4. Conditions to avoid

Oxidizing or alkaline substances



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# Humidity

Avoid heat, sparks, open flames and other ignition sources.

## 10.5. Incompatible materials

Oxidising agent, strong. Acid, concentrated. Alkali (lye), concentrated. amines. Alcohols. Water.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity

Harmful if inhaled.

#### ATEmix calculated

ATE (inhalation vapour) 19,25 mg/l; ATE (inhalation aerosol) 2,625 mg/l

CAS No	Chemical name	Chemical name						
	Exposure route	Dose		Species	Source	Method		
9016-87-9	Diphenylmethanediisocya	Diphenylmethanediisocyanate - Isomers & Homologues						
	oral	LD50 mg/kg	>10000	Rat				
	dermal	LD50 mg/kg	>9400	Rabbit				
	inhalation (4 h) aerosol	LC50	1,5 mg/l	Rat				
13674-84-5	Tris(2-chloro-1-methyleth	yl) phosphate	;					
	oral	ATE mg/kg	500					
115-10-6	dimethyl ether							
	inhalation (4 h) vapour	LC50	308 mg/l	Rat				

### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

Contains isocyanates. May produce an allergic reaction.May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethanediisocyanate - Isomers & Homologues) May cause an allergic skin reaction. (Diphenylmethanediisocyanate - Isomers & Homologues)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Diphenylmethanediisocyanate - Isomers & Homologues) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation. (Diphenylmethanediisocyanate - Isomers & Homologues)

# STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Diphenylmethanediisocyanate - Isomers & Homologues)

#### Aspiration hazard

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

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.



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CAS No	Chemical name	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
9016-87-9	Diphenylmethanediisocyanate - Isomers & Homol			ogues				
	Acute fish toxicity LC50 >1000 mg/l			Brachydanio rerio (zebra-fish)				
	Acute algae toxicity	ErC50 mg/l	>1640		Scenedesmus subspicatus			

#### 12.2. Persistence and degradability

No data available.

# 12.3. Bioaccumulative potential

No data available.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	2,8
74-98-6	propane	2,36

#### 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No data available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Disposal according to official regulations.

Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

#### List of Wastes Code - residues/unused products

080501 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes not otherwise specified in 08; waste isocyanates; hazardous waste

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1



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Classification code:	5F				
Special Provisions:	190 327 344 625				
Limited quantity:	1 L				
Excepted quantity:	E0				
Transport category:	2				
Tunnel restriction code:	D				
Inland waterways transport (ADN)					
<u>14.1. UN number:</u>	UN 1950				
14.2. UN proper shipping name:	AEROSOLS				
14.3. Transport hazard class(es):	2				
14.4. Packing group:	-				
Hazard label:	2.1				
	Jake State				
Classification code:	5F				
Special Provisions:	190 327 344 625				
Limited quantity:	1 L				
Excepted quantity:	E0				
Marine transport (IMDG)					
14.1. UN number:	UN 1950				
14.2. UN proper shipping name:	AEROSOLS				
14.3. Transport hazard class(es):	2.1				
14.4. Packing group:	-				
Hazard label:	2.1				
Hazaru label.	2.1				
	2				
Special Provisions:	63, 190, 277, 327, 344, 381,959				
Limited quantity:	1000 mL				
Excepted quantity:	E0 F-D, S-U				
EmS: Air transport (ICAO-TI/IATA-DGR)	F-D, 3-0				
<u>14.1. UN number:</u>	UN 1950 AEROSOLS, flammable				
14.2. UN proper shipping name:					
14.3. Transport hazard class(es):	2.1				
14.4. Packing group:	-				
Hazard label:	2.1				
Special Provisions:	A145 A167 A802				
Limited quantity Passenger:	30 kg G				
Passenger LQ:	Y203				
Excepted quantity:	EO				
IATA-packing instructions - Passenger:	203				
IATA-max. quantity - Passenger:	75 kg				
IATA-packing instructions - Cargo:	203				

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# alwitra Klebstoff PUR S750 Revision date: 07.12.2020 Product code: AWT-012 Page 10 of 12 IATA-max. quantity - Cargo: 150 kg 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No special precautions known. 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not applicable **SECTION 15: Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 29 2004/42/EC (VOC): 12,49 % (132,394 g/l) Information according to 2012/18/EU P3a FLAMMABLE AEROSOLS (SEVESO III): Additional information Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable Regulation (EC) No. 648/2004 (Detergents regulation): not applicable Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1). This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Water hazard class (D): 1 - slightly hazardous to water 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Tris(2-chloro-1-methylethyl) phosphate dimethyl ether

# **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 7,8,10,12,13,15,16. Version 1,00 - Creation - 23.01.2019 Version 2,00 - General update - 07.12.2020

## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act CAS: Chemical Abstracts Service

DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)



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EC: Effective Concentration EG: European Community (Europäische Gemeinschaft) EN: European Norm IATA: International Air Transport Association IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk ICAO: International Civil Aviation Organization IMDG: International Maritime Code for Dangerous Goods ISO: Norm of the International Standards Organization CLP: Classification, Labeling, Packaging IUCLID: International Uniform ChemicaL Information Database LC: Lethal concentration I D: Lethal dose log Kow: Octanol/water partition coefficient MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships OECD: Organisation for Economic Co-operation and Development PBT: Persistent, bio-cumulative, toxic RID: Regulation Concerning the International Transport of Dangerous Goods by Rail TRGS: Technische Regeln für Gefahrstoffe **UN: United Nations** VOC: Volatile Organic Compounds vPvB: very persistent and very bio-cumulative WGK: German Water Hazard Class GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration TLV: Threshold Limiting Value STOT: Specific Target Organ Toxicity AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

# Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure		
Aerosol 1; H222-H229	On basis of test data		
Acute Tox. 4; H332	Bridging principle "Aerosols"		
Skin Irrit. 2; H315	Bridging principle "Aerosols"		
Eye Irrit. 2; H319	Bridging principle "Aerosols"		
Resp. Sens. 1; H334 Bridging principle "Aerosols"			
Skin Sens. 1; H317 Bridging principle "Aerosols"			
Carc. 2; H351 Calculation method			
STOT SE 3; H335 Bridging principle "Aerosols"			
STOT RE 2; H373	Bridging principle "Aerosols"		

#### Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.	
H222 Extremely flammable aerosol.	
H229 Pressurised container: May burst if heated.	
H280 Contains gas under pressure; may explode	if heated.
H302 Harmful if swallowed.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
H319 Causes serious eye irritation.	
H332 Harmful if inhaled.	



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y cause allergy or asthma symptoms or breathing difficulties if inhaled.			
y cause respiratory irritation.			
spected of causing cancer.			
y cause damage to organs through prolonged or repeated exposure.			
ntains isocyanates. May produce an allergic reaction.			
1	y cause allergy or asthma symptoms or breathing difficulties if inhaled. y cause respiratory irritation. spected of causing cancer. y cause damage to organs through prolonged or repeated exposure.		

#### irther Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)