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***SAFETY DATA SHEET***  
***according to 1907/2006/EC, Article 31***

**1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product details**

**Trade name:** Glass Primer

**Article number:** 38721

**Intended use:** Car refinishing Product/ Adhesion promoter

**Manufacturer/Supplier:** Chamäleon GmbH

Rudolf-Diesel-Straße, 8a, 69155 Heidelberg -- Germany

**Further information obtainable from:** Product Safety Department

**Information in case of emergency:** + 49 70024112112 (CH)

**2 – HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in section 11 and 12 of this sheet.

**Regulation 1272/2008 (CLP) and following amendments and adjustments**

Hazard classification and indication:

Flam. Liq.2 H225

Eye Irrit.2 H319

Resp. Sens.1 H334

Skin Sens. 1 H317

STOT SE 3 H336

**67/548/EEC and 1999/45/EC Directives and following amendments and adjustments**

Danger Symbols: F-Xn

R phrases: 11-20-36-42/43-66

The full wording of the Risk (R) and Hazard (H) phrases is given in section 16 of the sheet.

**Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements

**Hazard pictograms**





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**Signal word:** Danger

**Hazard statements**

H225 Highly flammable liquid and vapour  
H319 Causes serious eye irritation  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H317 May cause an allergic skin reaction  
H336 May cause drowsiness or dizziness  
EUH066 Repeated exposure may cause skin dryness or cracking  
EUH204 Contains isocyanates. May produce an allergic reaction.

**Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 Keep container tightly closed  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P304+P341 IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

**Contains:**

ISOPHORONE DIISOCYANATE  
DIPHENYLMETHANE-4,4'-DIISOCYANATE  
METHYL ETHYL KETONE

**Other hazards**

Information not available

**3- COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical nature:** Mixtures

**Substances:** Information not relevant.

**Contains:**

Identification.	Conc.%. 67/548/EEC	Classification 67/548/EEC	Classification 1272/2008 (CLP)
<b>METHYL ETHYL KETONE</b>			
CAS. 78-93-3 EC. 201-159-0 INDEX.606-002-00-3	62-66	R66,R67, F R11, Xi R36	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
<b>ISOPHORONE DIISOCYANATE</b>			
CAS 4098-71-9 EC. 223-861-6 INDEX. 615-008-00-5	1.5-2	T R23, Xn R42/43, Xi R36/R37/R38, N R51/53, Note 2	Acute Tox. 3 H331, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H 335, Resp. Sens. 1 H334, Skin Sens. 1 H 317, Aquatic Chronic 2 H411, Note 2



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DIPHENYLMETHANE-4,4'-DIISOCYANATE			
CAS 101-68-8 EC. 202-966-0 INDEX.615-005-00-9	0.9-1	Carc. Cat. 3 R40, Xn R20, Xn R42/43, Xn R48/20, Xi R36/37/38, Note 2	Carc.2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H 315, STOT SE 3, H335, Resp.Sens. 1 H334, Skin Sens. 1, H317, Note 2C

Note: Upper limit is not included into the range

The full wording of the Risk (R) and Hazard (H) phrases is given in section 16 of the sheet.

T+ = Very Toxic (T+), T= Toxic (T), Xn = Harmful (Xn), C = Corrosive(C), Xi = Irritant(Xi), O= Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N= Dangerous for the Environment(N)

#### **4- FIRST - AID MEASURE**

##### **Description of first aid measures**

###### **Skin contact:**

Remove contaminated clothing. Rinse skin with shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

###### **Eye contact:**

Remove contact lenses, if present wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek for medical advice.

**Ingestion:** get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorized by a doctor..

###### **Inhalation:**

Remove to open air. If subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

###### **Most important symptoms and effects, both acute and delayed**

For symptoms and effects caused by the contained substance, see chap.11

###### **Indication of any immediate medical attention and special treatment needed**

Information not available.

#### **5- FIRE - FIGHTING MEASURE**

##### **Extinguishing media**

###### **Suitable extinguishing equipment:**

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapors and protect those trying to stem the leak.

###### **Unsuitable extinguishing equipment:**



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Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**Special hazards arising from the substance or mixture**

**Hazard causes by exposure in the event of fire**

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

**Hazardous combustion products:**

No hazardous combustion products are known

**Advice for firefighters**

**General information:**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**Special protective equipments for fire-fighters:**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**6- ACCIDENTAL RELEASE MEASURE**

**Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**Environmental precautions:**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**Methods and material for containment and cleaning up:**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provision set forth in point 13.

**Reference to other sections**

For information on personal protective equipment and disposal refer to sections 8 and section 13.



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## 7 – HANDLING AND STORAGE

### **Precautions for safe handling:**

Keep away from heat, sparks, and naked flames; do not smoke or use matches or lighters. Vapors may catch fire and an explosion may occur; vapor accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapors may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fire and explosions, never use compressed air when handling. Open containers with caution as they may be pressurized. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

### **Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store the container sealed, in a well ventilated place, away from direct sun light. Store in a well ventilated space, keep away from sources of heat, naked flames and sparks and others sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### **Specific end use(s)**

Information not available

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

Regulatory references:

United Kingdom

EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substance Hazardous to Health Regulations (as amended).

Eire

Code of Practice Chemical Agent Regulation 2011.

OEL EU

Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC : Directive2000/39/EC.

TLV-ACGIH

ACGIH 2012

### **METHYL ETHYL KETONE**

Threshold Limit Value.

Type	Country	TWA/8H		STEL/15min		
		Mg/m3	ppm	mg/m3	ppm	
WEL	UK	600	200	899	300	SKIN
OEL	Eire	600	200	900	300	SKIN
OEL	EU	600	200	900	300	
TLV-ACGIH		590	200	885	300	

### **ISOPHORONE DIISOCYANATE**

Threshold Limit Value.



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Type	Country	TWA/8H Mg/m <sup>3</sup> ppm	STEL/15min mg/m <sup>3</sup> ppm
TLV-ACGIH		0.005	

### DIPHENYLMETHANE-4,4'-DIISOCYANATE

Threshold Limit Value.

Type	Country	TWA/8H Mg/m <sup>3</sup> ppm	STEL/15min mg/m <sup>3</sup> ppm
OEL	Eire	0.02	0.07
TLV-ACGIH		0.051 0.005	

Legend:

(C)= CEILING; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA= Thoracic Fraction.

#### Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### Hand protection

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing the work gloves material: compatibility, degradation, failure time, and permeability.

The work gloves resistance to chemical agent should be checked before use, as it can be unpredictable. The gloves wear time depends on the duration and the type of use.

#### Skin protection:

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing the protective clothing.

Considerate the appropriateness of providing antistatic clothing in the case of a working environment in which there is a risk of explosion.

#### Eye protection:

Wear airtight protective goggles (see standard EN 166).

#### Respiratory protection:

If the threshold value (e.g TLV-TWA) is exceeded for the substance present in the product, use a mask with a type A filter whose class (1,2 or 3) must be chosen according to the limit of use of concentration. (see standard EN 14387). In the presence of gases or vapors of various kinds and/or gases or vapors containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odorless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in



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compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

The emission generated by manufacturing process, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	General Information
<b>Appearance:</b>	
<b>Form:</b>	<i>Liquid</i>
<b>Color:</b>	<i>Black</i>
<b>Odor:</b>	<i>Solvent</i>
<b>Odor threshold:</b>	<i>Not available</i>
<b>pH:</b>	<i>Not available</i>
<b>Change in condition</b>	
<b>Melting point/ freezing point:</b>	<i>Not available</i>
<b>Initial boiling point:</b>	<i>80°C</i>
<b>Boiling range:</b>	<i>Not available</i>
<b>Flash point:</b>	<i>-10 °C</i>
<b>Evaporation rate:</b>	<i>Not available</i>
<b>Flammability (solid, gas):</b>	<i>Not available</i>
<b>Upper/lower flammability or explosive limits :</b>	<i>0.8% (V/V) – 11.5% (V/V)</i>
<b>Vapour pressure:</b>	<i>150hPa</i>
<b>Vapour density (air=1):</b>	<i>2.5</i>
<b>Relative density:</b>	<i>0.95 g/ml (20°C)</i>
<b>Solubility in water</b>	<i>Not available</i>
<b>Partition coefficient:</b>	
<b>n-octanol/water:</b>	<i>Not available</i>
<b>Auto-ignition temperature:</b>	<i>400°C</i>
<b>Decomposition temperature:</b>	<i>Not available</i>
<b>Viscosity:</b>	<i>Not available</i>
<b>Explosive properties:</b>	<i>Not available</i>
<b>Oxidizing properties:</b>	<i>Not available</i>
<b>Other Information</b>	
<b>VOC (Directive 1999/13/EC):</b>	<i>61.91% - 588.10 g/litre</i>
<b>VOC (volatile carbon):</b>	<i>43.20% - 410.41 g/litre</i>



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## 10- STABILITY AND REACTIVITY

### **Reactivity**

There are no particular risks of reaction with other substances in normal condition of use.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: decomposes at 274°C. With water it develops carbon dioxide and forms an insoluble solid polymer. Consequently any wet material recovered must be stored in open containers.

METHYL ETHYL KETONE: reacts with light metals like aluminum, and with strong oxidizing agents; attacks various types of plastic. Decomposed under effect of heat.

### **Chemical stability**

This product is stable under normal condition of use.

### **Possibility of hazardous reactions**

The vapors may also form explosive mixtures with the air.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: can react dangerously with: alcohols, amines, ammonia, sodium hydroxide, acids, water and strong basis and acids.

METHYL ETHYL KETONE: may generate peroxides on contact with air, light or oxidizing agents. Risk of explosion on contact with: hydrogen peroxide and sulfuric acid. It may react dangerously with: oxidizing agents, trichloromethane,, alkalis. Form explosive mixture with the air.

### **Conditions to avoid**

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

METHYL ETHYL KETONE: avoid exposure to sources of heat

### **Incompatible materials**

METHYL ETHYL KETONE: strong oxidizing agents, inorganics acids, ammonia, copper and chloroform.

### **Hazardous decomposition products**

In event of thermal decomposition or fire, gases and vapors that are potentially to health may be released.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: nitric oxides, carbon oxides, hydrogen cyanides.

## 11- TOXICOLOGICAL INFORMATION

### **Information on toxicological effects**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3., to evaluate the toxicological effects of exposure to the product.

**Acute effects:** stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapor inhalation may moderately irritate the upper respiratory tract. Contact with skin may cause slight irritation.





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Ingestion may cause health problems, including stomach pain and sting, nausea, sickness. Inhalation of this product causes sensitization, which may give rise to a series of inflammatory episodes, most of all characterized by obstruction and affecting the respiratory system. Sometimes, sensitization phenomena arise together with evident rhinitis and asthma. Damages to respiratory system depend on the inhaled quantity, on the product concentration in the working environment and the exposure time.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the area which repeatedly comes into contact with the sensitizing agent. Cutaneous lesions may include: erythema, edemas, papules, vesicles, pustules, scurries, ulceration and exudative phenomena, whose intensity varies according to the illness seriousness and affected areas. Erythema, edemas and exudative phenomena prevail during the acute phase. Scuffy skin, dryness, ulceration and skin thickening prevail during the chronic phase.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, and narcosis.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: risk of sensitization even at concentration lower than TLV in case of spray working.

#### ISOPHORONE DIISOCYANATE

LD50 (Oral)	4825 mg/kg Rattus sp
LD50 (Dermal).	>7000mg/kg Rattus sp.
LC50 (Inhalation).	0.04 mg/l Ratus sp. (aerosol)

#### DIPHENYLMETHANE-4,4'-DIISOCYANATE

LD50 (Oral)	>2000 mg/kg Rattus sp
LD50 (Dermal).	>9400 mg/kg Oryctolagus sp..
LC50 (Inhalation).	2.24 mg/l Ratus sp. (aerosol)

#### METHYL ETHYL KETONE

LD50 (Oral)	2737 mg/kg Rattus sp
LD50 (Dermal).	6480 mg/kg Oryctolagus sp..
LC50 (Inhalation).	23.5 mg/l/8h Ratus sp. (aerosol)

## 12 – ECOLOGICAL INFORMATION

### **Toxicity**

#### DIPHENYLMETHANE-4,4'-DIISOCYANATE

LC 50 – for Fish	>1000 mg/l/96h Danio rerio
Chronic NOEC for Algae / Aquatic Plants	1640 mg/l Desmodesmus subspicatus

**Persistence and degradability** Information not available

**Bioaccumulative potential** Information not available

**Mobility in soil** Not available.

### **Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%

### **Other adverse effects**

Not available



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### 13- DISPOSAL CONSIDERATION

#### **Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

#### **CONTAMINATED PACKAGING**


Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### 14- TRANSPORT INFORMATION


These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of Industrial Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packaging or in packaging made of materials resistant to their content and not Reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all the actions that must be taken in case of emergency situation.

#### **Road and rail transport:**

ADR / RID Class:	3	UN: 1139	
Packing Group:	II		
Label:	3		
Nr.Kemler:	33		
Limited quantity:	5L		
Tunnel restriction code	(D/E)		
Proper shipping name :	COATING SOLUTION		

#### **Carriage by sea (shipping)**

IMO Class :	3	UN :1139	
Packing Group :	II		
Label:	3		
EMS:	F-E, S-E		
Marine Pollutant	NO		
Proper Shipping name	COATING SOLUTION		

#### **Transport by air:**

IATA:	3	UN:1139	
Packing Group:	II		
Label:	3		



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Cargo  
Packaging instruction: 364 Maximum quantity: 60L  
Pass.:  
Packaging instruction: 353 Maximum quantity: 5L  
Special instructions: A3  
Proper shipping name: COATING SOLUTION

### **15 – REGULATORY INFORMATION**

#### **Safety, health and environmental regulations/legislation specific for the substance or mixture .**

Seveso category. 7b  
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006  
Product  
Point. 3-40  
Contained substance.  
Point. 56 DIPHENYLMETHANE-4,4'-DIISOCYANATE  
Substances in Candidate List (Art. 59 REACH)  
None.  
Substances subject to authorization (Annex XIV REACH)  
None.  
Substances Subject to exportation reporting pursuant to (EC) Reg. 649/2012  
None.  
Substances subject to Rotterdam Convention  
None  
Substances subject to Stockholm Convention  
None.

#### **Healthcare controls**

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Product not intended for uses provided for by Dir. 2004/42/CE.

#### **Chemical Safety Assessment:**

No chemical safety assessment has been proceed for the mixture and the substances it contains

### **16-OTHER INFORMATION**

#### **Text of hazard (H) indications mentioned in section 2-3 of the sheet:**

Flam.Liq.2 Flammable liquid, category 2  
Carc.2 Carcinogenicity, category 2  
Acute Tox. 3 Acute toxicity, category 3  
Acute Tox. 4 Acute toxicity, category 4



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STOT RE 2	Specific target organ toxicity – repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity – single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Aquatic Chronic 2	Hazardous to aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapor
H331	Toxic if inhaled
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes severe eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness and dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged exposure or repeated.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking
EUH204	Contains isocyanates. May produce an allergic reaction

**Text of risk (R) phrases mentioned in section 2-3 of the sheet:**

R11	HIGHLY FLAMMABLE
R20	HARMFUL BY INHALATION
R23	TOXIC BY INHALATION
R36	IRRITATING TO EYES
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN
Carc. Cat. 3	Carcinogenicity, category 3
R40	LIMITED EVIDENCE OF CARCINOGENIC EFFECT
R42/43	MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION
R51/53	TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING
R67	VAPORS MAY CAUSE DROWSINESS AND DIZZINESS

The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.