



Item number 1-01032
MULTIPLEX Modellsport GmbH & Co. KG
75015 Bretten-Gölshausen

Date 12.08.2025; revision date: 22.04.2025

Version 06 replaces version 05

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

1.1 Product identifier

Zackivator

Artikelnummer 1-01032

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

Use of the substance/mixture:

Adhesion promotor (Adhesives, sealants)

1.3 Details of the supplier of the safety data sheet

Company

MULTIPLEX Modellsport GmbH & Co. KG
Westliche Gewerbestr. 1
75015 Bretten-Gölshausen
Telephone: 07252 / 580930
Homepage: <https://www.multiplex-rc.de/>

Technical Support

info@chemiebuero.de

1.4 Emergency telephone number:

Contact
+49 (0)6132-84463
Company name
GBK GmbH

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [Regulation (EC) No 1272/2008]

Aerosol 1: **H222** Extremely flammable aerosol. **H229** Pressurised container: May burst if heated.
Eye Irrit. 2: **H319** Causes serious eye irritation..
STOT SE 3: **H336** May cause drowsiness or dizziness.

2.2 Label elements

Hazard components for labelling

Acetone; propan-2-one; propanone

Signal word

Danger

Pictograms



Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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.



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P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P405 Store locked up.
P501 Dispose of contents/container to an appropriate recycling or disposal facility

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

Labelling of packaging with a content of not more than 125 ml

Signal word

Danger

Pictograms



Aerosol 1: **H222** Extremely flammable aerosol. **H229** Pressurised container: May burst if heated.
STOT SE 3: **H336** May cause drowsiness or dizziness.

Precautionary statements

P102 Keep out of reach of children.
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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P405 Store locked up.
P501 Dispose of contents/container to an appropriate recycling or disposal facility

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Vapours can form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
106-97-8	Butane			40 - < 45%
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Compressed gas; H220 H280			
67-64-1	Acetone; propan-2-one; propanone			30 - < 35 %
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
74-98-6	Propane			20 - < 25 %



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	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Compressed gas; H220 H280			
121-72-2	N,N-Dimethyl-p-toluidine			0,1 - < 0,5 %
	204-495-6	612-056-00-9		
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 H412			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
67-64-1	200-662-2	Acetone; propan-2-one; propanone	30 - < 35 %
	inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 7400 mg/kg; oral: LD50 = 5800 mg/kg		
121-72-2	204-495-6	N,N-dimethyl-p-toluidine	0,1 - < 0,5 %
	inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Take off immediately all contaminated clothing and wash it before reuse.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get medical advice/attention if you feel unwell.

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

Treat symptomatically. Subsequent observance for pneumonia and lung oedema.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurized container: May burst if heated. Vapours can form explosive mixtures with air.

In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide, Carbon dioxide (CO₂))

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition.
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin, eyes and clothes

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.

For emergency responders

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. **Explosion risk.**

6.3. Methods and material for containment and cleaning up

For containment

Eliminate the leak if it can be done safely. Cover the drains.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder).
Treat the absorbed material according to the disposal section.

Other information

Clean contaminated articles and floor according to the environmental legislation.



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6.4. Reference to other sections

See section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not pierce or burn, even after use.
If handled uncovered, arrangements with local exhaust ventilation have to be used.
Do not breathe gas/fumes/vapour/spray.
Use personal protection equipment.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material.
Protect from sunlight.
Do not expose to temperatures exceeding 50 °C/122 °F.
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately.
Draw up and observe skin protection programme.
Wash hands and face before breaks and after work and take a shower if necessary.
When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.
Keep locked up.
Store in a place accessible by authorized persons only.
Provide adequate ventilation as well as local exhaustion at critical locations.
Keep in a cool, well-ventilated place.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Protect from sunlight.
Do not expose to temperatures exceeding 50 °C/122 °F.

7.3. Specific end uses

Adhesion promoter (adhesives, sealants)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values (TRGS 900):



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Designation	CAS No	ppm	mg/m ³	Peak limitation factor	Remark
Acetone	67-64-1	500	1200	2 (I)	Y
Butane	106-97-8	1000	2400	4 (II)	
Isobutane	75-28-5	1000	2400	4 (II)	
Propane	74-98-6	1000	1800	4 (II)	

Biological limit values (TRGS 903):

Designation	CAS No	Test material	Limit value	Sampling time
Acetone	67-64-1	U	50mg/l	b

DNEL/DMEL values (Derived No Effect Level):

Designation	CAS No	DNEL Typ	Route of exposure	Effect	Value
Acetone; Propan-2-one; Propanone	67-64-1				
		Consumer DNEL, long-term	oral	systemic	62 mg/kg bw/day
		Consumer DNEL, long-term	dermal	systemic	62 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	200 mg/m ³
		Consumer DNEL, long-term	dermal	systemic	186 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	local	1210 mg/m ³
		Consumer DNEL, long-term	inhalation	systemic	2420 mg/m ³

PNEC values (Predicted No Effect Concentration):

Designation	CAS No	Environmental compartment	Value
Acetone; Propan-2-one; Propanone	67-64-1		
		Freshwater	10.6 mg/l
		Marine water	1.06 mg/l
		Freshwater sediment	30.4 mg/kg
		Marine sediment	3.04 mg/kg
		Micro-organisms in sewage treatment plants	100 mg/l
		Soil	29.5 mg/kg
		Intermittent release (freshwater)	21 mg/l

8.2. Exposure controls



Appropriate engineering controls:

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Wear eye/face protection (EN 166).



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Hand protection:

Wear suitable gloves (EN ISO 374)

Suitable material: **Butyl caoutchouc** (butyl rubber)
Thickness of the glove material $\geq 0,5$ mm
Permeation time (maximum wear duration): ≥ 240 min.

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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection:

Wear suitable protective clothing (EN 340).

Respiratory protection:

In case of inadequate ventilation wear respiratory protection (EN 14387).
Filter type: A-P2
Respiratory protection necessary at: high concentrations, exceeding exposure limit values

Thermal hazards:

Flame-retardant protective clothing. Wear anti-static footwear and clothing.

Begrenzung und Überwachung der Umweltexposition:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value / Description
Physical state:	Liquid (aerosol)
Colour:	Colourless
Odour:	Of acetone
Odour threshold:	Not determined
Melting point / freezing point:	Not applicable
Boiling point / initial boiling point and range:	< -20 °C
Flammability:	Extremely flammable aerosol
Lower explosion limit:	2.15 vol.-%
Upper explosion limit:	15 vol.-%
Flash point (acetone):	< -20 °C
Auto-ignition temperature:	365 °C
Decomposition temperature:	Not determined
pH value:	Not determined
Kinematic viscosity:	Not determined
Water solubility:	Partially soluble
Solubility in other solvents:	Not determined
Partition coefficient n-octanol/water:	Not determined
Vapour pressure:	Not determined
Density (at 20 °C):	0.625 g/cm ³
Relative vapour density:	Not determined
Particle characteristics:	Not applicable

9.2. Other information

Information with regard to physical hazard classes



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Explosive properties:

Pressurised container: May burst if heated.
Vapours can form explosive mixtures with air.

Further Information:

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Vapours can form explosive mixtures with air.
Pressurised container: May burst if heated.

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide), Carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) > 5000 mg/kg
ATE (dermal) > 5000 mg/kg
ATE (inhalation vapour) > 50 mg/l
ATE (inhalation dust/mist) > 12,5 mg/l

Einzelstoffe:

Designation	CAS No	Species	Route of exposure	Dose / Value	Source
Acetone; Propan-2-one; Propanone	67-64-1	Rat	oral	LD50 = 5800 mg/kg	Manufacturer
		Rabbit	dermal	LD50 = 7400 mg/kg	Manufacturer
		Rat	inhalation (4h, vapour)	LC50 = 76 mg/l	Manufacturer



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N,N-Dimethyl-m-toluidine	121-72-2		oral	ATE = 100 mg/kg	
			dermal	ATE = 300 mg/kg	
			inhalation (vapour)	ATE = 3 mg/l	
			inhalation (dust/mist)	ATE = 0,5 mg/l	

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Repeated exposure may cause skin dryness or cracking

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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 drowsiness or dizziness. (acetone; propan-2-one; propanone)

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

oral, dermal, inhalative, Eye contact

11.2. Information on other hazards

Endocrine disrupting properties

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

SECTION 12: Ecological information

12.1. Toxicity

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

The product is not: Ecotoxic

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water:

Butane (106-97-8): **2,89**

Acetone; Propan-2-one; Propanone (67-64-1): **-0,24**

Propane (74-98-6): **2,36**

N,N-Dimethyl-m-toluidine (121-72-2): **2,81**

12.4. Mobility in soil

The product has not been tested.



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12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

Further information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter surface water or drains. Dispose of waste in accordance with applicable legislation. The assignment of waste identification codes/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of Wastes Code – residues/unused products

160504:
WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code – used product

160504:
WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code – contaminated packaging

150104:
WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950

14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2

14.4. Packing group: -

Hazard label: 2.1



Classification code: 5F



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Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

Inland waterways transport (ADN)

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



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID 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



Marine pollutant: -
Special Provisions: 63 190 277 327 344 381 959
Limited quantity: 1000 mL
Excepted quantity: E0
EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, FLAMMABLE
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: E0
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Extremely flammable aerosol.
Pressurized container: May burst if heated.



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**14.7. Maritime transport in bulk according to IMO instruments
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 40
- Entry 75

Directive 2010/75/EU on industrial emissions:
100 %

Information according to Directive 2012/18/EU (SEVESO III):
P3a FLAMMABLE AEROSOLS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):
This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Additional information

Aerosol Directive (75/324/EEC).

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Flam. Gas: Flammable gases
Aerosol: Aerosol
Compressed gas
Flam. Liq: Flammable liquid
Acute Tox: Acute toxicity
Eye Irrit: Eye irritation
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Chronic: Chronic aquatic hazard
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration



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ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
Flam. Gas: Entzündbare Gase

Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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

Hazard class	Classification	Classification procedure
Aerosol 1; H222-H229	Extremely flammable aerosol	On the basis of test data
Eye Irrit. 2; H319	Eye Irritation	Bridging principle "Aerosols"
STOT SE 3; H336	Drowsiness/dizziness	Bridging principle "Aerosols"

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

H220: Extremely flammable gas.
H222: Extremely flammable aerosol.
H225: Highly flammable liquid and vapour.
H229: Pressurised container: May burst if heated.
H280: Contains gas under pressure; may explode if heated.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H336: May cause drowsiness or dizziness.
H373: May cause damage to organs through prolonged or repeated exposure.
H412: Harmful to aquatic life with long lasting effects.
EUH066: Repeated exposure may cause skin dryness or cracking.

Further information:

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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