

Date of issue: 2.5.2016	Trade name:	Page: 1/9
Reviewed on:	MULTI CLEANER STRONG	Version: 2.0

1. Section 1. Identification of the substance/mixture and of the company/undertaking:

1.1. Product identifier:

Trade name: **MULTI CLEANER STRONG**
Product code: **R 34228**

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

Uses of the mixture: Biodegradable degreaser and cleaner concentrate.
For professional and industrial use only.

Uses advised against: Not known.

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

Identification of manufacturer/Supplier:

RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky

Telephone number/Fax: +420 327 596 128, +420 327 596 428

E-mail: info@retech.cz

1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic

Telephone number: +420 327 596 128 (7.30-16.00 hour)

Toxikologické informační středisko (Toxicology information centre),

Na bojišti 1, 128 08 PRAHA 2, Czech Republic

Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

2.1. Classification of the substance or mixture:

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

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Danger

Hazard Statements:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P102 Keep out of reach of children.

P261 Avoid breathing vapours/spray.

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P310 Immediately call a POISON CENTER/doctor.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with national regulation.

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Contained dangerous substances:

1310-73-2 sodium hydroxide;

85536-14-7 benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.;

55965-84-9 mixture of 5-Chloro- 2-methyl-isothiazol- 3(2H)-one and 2- methylisothiazol- 3(2H)-one (3:1)

Regulation (EC) No 648/2004:

non-ionic surfactants < 5 %; anionic surfactants < 5 %; EDTA and salts thereof < 5 %; preservatives (methylchloroisothiazolinone a methylisothiazolinone); parfum

2.3. Other hazards:

Causes severe burns in case of contact with skin, mucous membranes and eyes, and if swallowed also in the esophagus and digestive tract. There may also be a risk of perforation.

Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

CAS: 1310-73-2 EINECS: 215-185-5 Reg.č.: 01-2119457892-27-0008	Sodium hydroxide (50%) * Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Damage 1, H318	9.1 %
CAS: 67-63-0 EINECS: 200-661-7	Propan-2-ol (99%) Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	< 5 %
CAS: 85536-14-7 EINECS: 287-494-3 Reg.č.: 01-2119490234-40-0004	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. Acute Tox. 4, H302; Skin Corr. 1C, H314; Aquatic Chronic 3, H412	1.5 %
CAS: 139-33-3 EINECS: 205-358-3 Reg.č.: 01-2119486775-20	Disodium dihydrogen ethylenediaminetetraacetate Acute Tox. 4, H332	1 %
CAS: 15763-76-5 EINECS: 239-854-6 Reg.č.: 01-2119489411-37	Sodium p-cumenesulphonate Eye Irrit. 2, H319	< 3 %
CAS: 55965-84-9	Mixture of 5-Chloro- 2-methyl-isothiazol- 3(2H)-one and 2- methylisothiazol- 3(2H)-one (3:1) Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1B, H314; Skin Sens. 1, H317; Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1 %
EINECS: 931-513-6 Reg.č.: 01-2119513359-38	Betaines, (C12-18-amidoalkyl)dimethyl Eye Dam. 1, H318; Aquatic Chronic 3, H412	< 2 %
CAS: 111-90-0 EINECS: 203-919-7 Reg.č.: 01-2119475105-42	2-(2-ethoxyethoxy)ethanol -	4.5 %
CAS: 9005-64-5 EINECS: 500-018-3	Sorbitan monolaurate, ethoxylated -	< 2 %

*Specific concentration limit: Skin Corr. 1A; H314: C ≥ 5 %; Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %; Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %; Skin Corr. 1B; H314: 2 % ≤ C < 5 %

For full text of H-statements: see SECTION 16.

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Regulation (EC) No 648/2004:
non-ionic surfactants < 5 %; anionic surfactants < 5 %; EDTA and salts thereof < 5 %; preservatives (methylchloroisothiazolinone a methylisothiazolinone); parfum

4. Section 4. First aid measures:

4.1. Description of first aid measures:

General notes: When in doubt or if symptoms are observed, get medical advice.
 After inhalation: Move affected person to fresh air and keep warm and at rest.
 If experiencing respiratory symptoms get medical attention.
 After skin contact: Take off immediately all contaminated clothing.
 Wash immediately with plenty of water and soap and rinse thoroughly.
 If skin irritation occurs, get medical advice/attention.
 In case of serious injuries, immediate medical help or hospital treatment is required.
 After eye contact: Rinse opened eye for several minutes under running water.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately seek medical attention, because the highly alkaline mixture causes serious permanent eye damage.
 After swallowing: If the injured person is conscious, flush his mouth cautiously with water, which should not be swallowed.
 It is not recommended to give anything to drink because there is a risk of aspiration in case of foam building.
 Do not induce vomiting.
 Immediately call a doctor.

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

Causes severe burns in case of contact with skin, mucous membranes and eyes, and if swallowed also in the esophagus and digestive tract. There may also be a risk of perforation.
 Inhalation may cause respiratory tract irritation in case of spray formation.

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

Show the safety data sheet or label to the physician.

5. Section 5. Fire fighting measures:

5.1. Extinguishing media:

Suitable extinguishing agents: Water spray, carbon dioxide (CO₂), powder, foam.
 Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing agents: Not known.

5.2. Special hazards arising from the substance or mixture:

Formation of toxic gases is possible in case of fire.
 Do not inhale fumes in case of fire or explosion.

5.3. Advice for firefighters:

Wear protective clothing and self-contained breathing apparatus.
 Cool endangered receptacles with water spray.
 Move container from fire area if it can be done without risk.
 Collect contaminated extinguishing water and remains after the fire separately, do not enter into sewer.

6. Section 6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Wear protective equipment, see Section 8.
 Keep unprotected person away.

For emergency responders: Wear protective equipment, see Section 8.
 Keep unprotected person away.
 Avoid contact with skin and eyes.
 Do not inhale vapour/spray.

6.2. Environmental precautions:

Dispose the spillage according to the applicable environmental regulations.
 Do not allow to enter soil, sewage system, surface or ground water.

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6.3. Methods and material for containment and cleaning up:	<p>Notify the respective authorities in accordance with law in the case of environmental pollution immediately.</p> <p>Prevent further leakage or spillage if safe to do so.</p> <p>Absorb with liquid-binding material (soil, sand, sawdust, diatomaceous earth, etc.) and transfer to a closable, labelled salvage container for disposal.</p> <p>Flush contaminated area with copious amounts of water.</p> <p>Dispose contaminated material as waste according to Section 13.</p>
6.4. Reference to other sections:	<p>See Section 7 for information on safe handling.</p> <p>See Section 8 for information on personal protection equipment.</p> <p>See Section 13 for disposal information.</p>

7. Section 7. Handling and storage:	
7.1. Precautions for safe handling:	
Protective measures:	<p>Wear protective equipment, see Section 8.</p> <p>Ensure good ventilation/exhaustion at the workplace.</p> <p>Keep the unused container closed.</p> <p>Observe the general hygiene measures.</p> <p>Do not mix with any other cleaning products.</p> <p>Avoid contact with skin and eyes.</p> <p>Do not inhale vapour/spray.</p>
Measures to prevent fire:	No special precautions.
7.2. Conditions for safe storage, including any incompatibilities:	
Requirements for storage rooms and vessels:	Keep in original container in a cool and dry place.
Technical measures and storage conditions:	<p>Store in a well ventilated place.</p> <p>Incompatible materials: strong acids, metals (aluminium, copper, etc.)</p>
Further information on storage conditions:	<p>Keep out of reach of children.</p> <p>Store away from foodstuffs, beverages and feed.</p>
7.3. Specific end use(s):	See the section 1.2.

8. Section 8. Exposure controls/personal protection:																										
8.1. Control parameters:																										
Components with limit values that require monitoring at the workplace:																										
WEL (United Kingdom): EH40/2005																										
<table border="1"> <thead> <tr> <th rowspan="2">CAS</th> <th rowspan="2">Substance</th> <th colspan="2">Long-term (8-hr TWA ref. period)</th> <th colspan="2">Short-term (15 minute ref. period)</th> <th rowspan="2">Comments</th> </tr> <tr> <th>ppm</th> <th>mg/m³</th> <th>ppm</th> <th>mg/m³</th> </tr> </thead> <tbody> <tr> <td>1310-73-2</td> <td>Sodium hydroxide</td> <td>-</td> <td>-</td> <td>-</td> <td>2</td> <td>-</td> </tr> <tr> <td>67-63-0</td> <td>Propan-2-ol</td> <td>400</td> <td>999</td> <td>500</td> <td>1250</td> <td>-</td> </tr> </tbody> </table>	CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments	ppm	mg/m ³	ppm	mg/m ³	1310-73-2	Sodium hydroxide	-	-	-	2	-	67-63-0	Propan-2-ol	400	999	500	1250	-	
CAS			Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments																		
	ppm	mg/m ³		ppm	mg/m ³																					
1310-73-2	Sodium hydroxide	-	-	-	2	-																				
67-63-0	Propan-2-ol	400	999	500	1250	-																				
OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG																										
Contains no substances with occupational exposure limit values.																										
DNEL																										
1310-73-2 Sodium hydroxide																										
Inhalation	Chronic effects local	1	mg/m ³	Workers																						
	Chronic effects local	1	mg/m ³	Consumers																						
139-33-3 Disodium dihydrogen ethylenediaminetetraacetate																										
Inhalation	Acute effects systemic	2.5	mg/m ³	Workers																						
	Acute effects systemic	1.5	mg/m ³	Consumers																						
	Acute effects local	2.5	mg/m ³	Workers																						
Oral	Chronic effects	25	mg/kg Body weight/day	Workers																						

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85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Inhalation	Chronic effects	12 mg/m ³	Workers
	Chronic effects	3 mg/m ³	Consumers
Dermal	Chronic effects	170 mg/kg Body weight/day	Workers
	Chronic effects	85 mg/kg Body weight/day	Consumers
Oral	Chronic effects	0.85 mg/kg Body weight/day	Consumers

PNEC

139-33-3 Disodium dihydrogen ethylenediaminetetraacetate

Freshwater	2.5 mg/l
Marine water	0.25 mg/l
Intermittent releases	1.4 mg/l
STP	50 mg/l
Soil	0.84 mg/kg

85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Freshwater	0.268 mg/l
Marine water	0.0268 mg/l
Intermittent releases	0.0167 mg/l
STP	3.43 mg/l
Sediment (freshwater)	81 mg/kg

Additional information: The lists that were valid during the compilation were as basis.

8.2. Exposure controls:

Technical measures to prevent exposure:

Ensure good ventilation/exhaustion at the workplace.

General protective measures:

Follow usual hygiene rules.

Store away from foodstuffs, beverages and feed.

Wash hands with soap and water before breaks and at the end of work and treat them with a suitable regenerative cream.

Do not eat, drink or smoke during the work.

Personal protection equipment:

Respiratory protection:

Ensure good ventilation/exhaustion at the workplace.

If the general level exceeds the recommended occupational exposure limit use adequate breathing apparatus.

Eye protection:

Tight-fitting goggles or face shield should be worn if there is a risk of eye contact (EN 166).

Hand protection:

Alkali resistant protective gloves (EN 374).

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin protection:

Alkali resistant protective clothing and shoes should be worn (EN 344).

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined
Value pH:	13
Melting point/freezing point:	Not determined
Initial boiling point/boiling range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not determined

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Flammability (solid, gas): Not determined
 Explosive properties: Not determined
 Explosive limits:
 - lower: Not determined
 - upper: Not determined
 Vapour pressure at 20 °C: Not determined
 Vapour density at 20 °C: Not determined
 Density at 20 °C: 1.04 – 1.06 g/cm³
 Relative density: Not determined
 Solubility in/miscibility: Miscible with water.
 Partition coefficient (n-octanol/water): Not determined
 Ignition temperature: Not determined
 Decomposition temperature: Not determined
 Self-ignition temperature: Not determined
 Viscosity: Not determined
 Oxidising properties: Not determined

9.2. Other information: No further relevant information available.

10. Section 10. Stability and reactivity:

10.1. Reactivity: No further relevant information available.
 10.2. Chemical stability: Stable at normal temperatures, pressures and when used as recommended.
 10.3. Possibility of hazardous reactions: Not known.
 10.4. Conditions to avoid: Do not mix with any other chemicals.
 10.5. Incompatible materials: Acids, metals (aluminium, copper, etc.)
 10.6. Hazardous decomposition products: Hydrogen gas may be formed on contact with metals (aluminium, copper, zinc, tin, lead, etc.)

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

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

1310-73-2 Sodium hydroxide

Intraperitoneal	LD50	Mouse	40 mg/kg
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85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Oral	LD50	Rat	1470 mg/kg
Dermal	LD50	Rat	> 2000 mg/kg

67-63-0 Propan-2-ol

Oral	LD50	Rat	5045 mg/kg
Inhalative	LC50/4 h		46.5 mg/l

Skin corrosion/irritation: Causes severe skin burns and eye damage.
 Serious eye damage/irritation: Causes serious eye damage.
 Respiratory or skin sensitization: May cause an allergic skin reaction.
 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: Based on available data, the classification criteria are not met.
 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.
 Other information: Likely routes of exposure: Ingestion, inhalation, skin contact, eye contact.
 Inhalation of vapours may cause corrosion/irritation of the respiratory system.
 May cause an allergic skin reaction.

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12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
67-63-0 Propan-2-ol

Fish:	LC50 / 96 h	> 1400 mg/l
Invertebrates:	LC50 / 48 h Daphnia magna	13299 mg/l

12.2. Persistence and degradability:

Mixture: No further relevant information available.
67-63-0 Propan-2-ol: Readily biodegradable: 95 % in 21 days.

12.3. Bioaccumulative potential:

No further relevant information available.

12.4. Mobility in soil:

No further relevant information available.

Additional ecological information:

General notes: Do not allow product to reach water, soil or sewage system.

12.5. Results of PBT and vPvB assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects:

No further relevant information available.

13. Section 13. Disposal considerations:

13.1. Waste treatment methods:

Product disposal: Disposal must be made according to official regulations.
Do not allow product to reach sewage system.
European Waste Catalogue: 20 01 29* detergents containing hazardous substances
(*hazardous waste)

Packagings disposal: Empty contaminated packaging materials must be disposed of according to official regulations.
European Waste Catalogue: 15 01 10* packaging containing residues of or contaminated by hazardous substances
(*hazardous waste)

Other disposal recommendations:

Disposal must be made according to official regulations.
The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:

14.1. UN number:

ADR, IMDG, IATA UN 3266

14.2. UN proper shipping name:

ADR 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide)
IMDG CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide)
IATA CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide)

14.3. Transport hazard class(es):

ADR
Class 8 C5
Hazard label 8
IMDG
Class 8
Hazard label 8
IATA
Class 8
Hazard label 8

14.4. Packing group:

ADR, IMDG, IATA II

14.5. Environmental hazards:

No further relevant information available.

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- 14.6. Special precautions for user:
Hazard identification number: 80
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:
Not applicable
- UN "Model Regulation": UN 3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide), 8, II

15. Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values

Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values

Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

- 15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

Relevant H-statements (Section 3):

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

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LC50: Median concentration lethal to 50 % of a test population
LD50: Median dose lethal to 50 % of a test population
N.O.S.: Not Otherwise Specified entry
PBT: Persistent, Bioaccumulative, Toxic
PNEC: Predicted No-Effect Concentration
Reg.nr.: Registration number
STP: Sewage Treatment Plants
vPvB: Very Persistent, Very Bioaccumulative
WEL: Workplace exposure limits
Acute Tox. 3: Acute toxicity, category 3
Acute Tox. 4: Acute toxicity, category 4
Aquatic Acute 1: Hazardous to the aquatic environment, category 1
Aquatic Chronic 1: Hazardous to the aquatic environment, category 1
Aquatic Chronic 3: Hazardous to the aquatic environment, category 3
Eye Dam. 1: Serious eye damage, category 1
Eye Irrit. 2: Serious eye irritation, category 2
Flam. Liq. 2: Flammable liquid, category 2
Met. Corr. 1: Substance or mixture corrosive to metals, category 1
Skin Corr. 1: Skin corrosion, category 1
Skin. Sens. 1: Skin sensitization, category 1
STOT SE 3: Specific target organ toxicity — single exposure, category 3

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**