

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### n-Nonane > 99 % for synthesis

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

#### 1.1. Product identifier

n-Nonane > 99 % for synthesis

CAS No: 111-84-2 EC No: 203-913-4

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

### Use of the substance/mixture

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

#### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger



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### Pictograms:









#### **Hazard statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

# **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

No data available

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

#### 3.1. Substances

Sum formula: CH3(CH2)7CH3
Molecular weight: 128,25 g/mol

# Relevant ingredients

| CAS No   | Chemical name  |          |          | Quantity |
|----------|--|----------|----------|----------|
|          | EC No  | Index No | REACH No |          |
|          | Classification (Regulation (EC) No 1272/2008)  |          |          |          |
| 111-84-2 | nonane   |          |          | 100 %    |
|          | 203-913-4  |          |          |          |
|          | Flam. Liq. 3, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H336 H304 H400 H410 |          |          |          |

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. L         | imits, M-factors and ATE  |          |
| 111-84-2 | 203-913-4                | nonane  | 100 %    |
|          | inhalation: LC5<br>mg/kg | 0 = 17 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 |          |

### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures



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### **General information**

No data available

#### After inhalation

Provide fresh air.

### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of eye irritation consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

Irritant

Has degreasing effect on the skin.

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

No data available

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Foam

Carbon dioxide (CO2)

Extinguishing powder

Water

### Unsuitable extinguishing media

no restriction

### 5.2. Special hazards arising from the substance or mixture

Combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide (CO2) Carbon monoxide

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

### 5.3. Advice for firefighters

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

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

## **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

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

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

# General advice

Keep away from sources of ignition - No smoking.



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This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

# For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Danger of explosion

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

### Advice on protection against fire and explosion

Take action to prevent static discharges.

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.



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### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

# Requirements for storage rooms and vessels

Store in a well-ventilated place.

Keep container tightly closed.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Hints on joint storage

national regulations

### Further information on storage conditions

Keep cool. Protect from sunlight. storage temperature: < +30°C

### 7.3. Specific end use(s)

Laboratory chemicals

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### Occupational exposure limits

| CAS No   | Substance | ppm | mg/m³ | fib/cm³ | Category  | Origin |
|----------|-----------|-----|-------|---------|-----------|--------|
| 111-84-2 | Nonane    | 200 | 1050  |         | TWA (8 h) |        |

### **DNEL/DMEL values**

| CAS No       | Substance     |                |          |                  |  |  |
|--------------|---------------|----------------|----------|------------------|--|--|
| DNEL type    |               | Exposure route | Effect   | Value            |  |  |
| 111-84-2     | nonane        |                |          |                  |  |  |
| Worker DNEL, | long-term     | inhalation     | systemic | 2035 mg/m³       |  |  |
| Worker DNEL, | long-term     | dermal         | systemic | 773 mg/kg bw/day |  |  |
| Consumer DNE | EL, long-term | inhalation     | systemic | 608 mg/m³        |  |  |
| Consumer DNE | EL, long-term | dermal         | systemic | 699 mg/kg bw/day |  |  |
| Consumer DNE | EL, long-term | oral           | systemic | 699 mg/kg bw/day |  |  |

### **PNEC** values

| CAS No   | Substance   |             |
|--|-------------|-------------|
| Environmental                                    | compartment | Value       |
| 111-84-2   | nonane      |             |
| Freshwater                                       |             | 0,0036 mg/l |
| Freshwater (intermittent releases)               |             | 0,014 mg/l  |
| Marine water                                     |             | 0,0036 mg/l |
| Freshwater sediment                              |             | 0,62 mg/kg  |
| Marine sediment                                  |             | 0,62 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) |             | 0,054 mg/l  |
| Soil   | Soil        |             |

#### 8.2. Exposure controls



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### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

goggles

Face protection umbrella

#### Hand protection

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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 730 Camatril® Velours Recommended material: NBR (Nitrile rubber) 0,4 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 720 Camapren®

Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm

Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device with filter or ventilator filtering device of type: A-(P2)

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid



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colourless Colour: characteristic Odour: No data available Odour threshold:

Melting point/freezing point: -53 °C 151 °C Boiling point or initial boiling point and

boiling range:

Flammability: No data available Lower explosion limits: 0.7 vol. % Upper explosion limits: 5,6 vol. % Flash point: 31 °C 205 °C Auto-ignition temperature: No data available Decomposition temperature: pH-Value: No data available

(at 40 °C)

Viscosity / kinematic:

Water solubility: practically insoluble

(at 20 °C)

Solubility in other solvents No data available

No data available Dissolution rate: Partition coefficient n-octanol/water: log Pow: 5,65 No data available Dispersion stability: No data available Vapour pressure: No data available Vapour pressure: Density (at 20 °C): 0.72 a/cm<sup>3</sup> Relative density: No data available No data available Bulk density: No data available Relative vapour density: No data available Particle characteristics:

### 9.2. Other information

### Information with regard to physical hazard classes

Explosive properties

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Sustained combustibility: Sustained combustibility

Self-ignition temperature

No data available Solid: No data available Gas:

Oxidizing properties No data available

Other safety characteristics

No data available Evaporation rate: No data available Solvent separation test: No data available Solvent content: No data available Solid content: No data available Sublimation point: No data available Softening point: Pour point: No data available No data available

1 mPa·s

<7 mm<sup>2</sup>/s

Viscosity / dynamic:

(at 20 °C)



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Flow time: No data available

**Further Information** 

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

In case of warming:

Vapours may form explosive mixtures with air.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Oxidising agent, strong

### 10.4. Conditions to avoid

Heat

# 10.5. Incompatible materials

plastics

### 10.6. Hazardous decomposition products

**SECTION 5: Firefighting measures** 

### **Further information**

No data available

# **SECTION 11: Toxicological information**

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

#### Toxicocinetics, metabolism and distribution

No data available

### **Acute toxicity**

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

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

| CAS No   | Chemical name           |               |         |         |   |                    |  |  |
|----------|-------------------------|---------------|---------|---------|---|--------------------|--|--|
|          | Exposure route          | Dose          |         | Species | Source  | Method             |  |  |
| 111-84-2 | nonane                  |               |         |         |   |                    |  |  |
|          | oral                    | LD50<br>mg/kg | > 5000  | Rat     | Study report (1982)                           | OECD Guideline 401 |  |  |
|          | dermal                  | LD50<br>mg/kg | > 2000  | Rabbit  | Study report (1982)                           | OECD Guideline 402 |  |  |
|          | inhalation (4 h) vapour | LC50          | 17 mg/l | Rat     | Toxicology and<br>Applied<br>Pharmacology 44: | OECD Guideline 403 |  |  |

# Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Has degreasing effect on the skin.

### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction



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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. (nonane)

### STOT-repeated exposure

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

### **Aspiration hazard**

May be fatal if swallowed and enters airways.

### Information on likely routes of exposure

No data available

### Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

#### **Practical experience**

No data available

### 11.2. Information on other hazards

# **Endocrine disrupting properties**

No data available

### Other information

No data available

# **Further information**

Irritant

Has degreasing effect on the skin.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

| CAS No   | Chemical name            |               |          |           |                                    |   |  |
|----------|--------------------------|---------------|----------|-----------|------------------------------------|---|--|
|          | Aquatic toxicity         | Dose          |          | [h]   [d] | Species                            | Source  | Method   |
| 111-84-2 | nonane                   |               |          |           |                                    |   |  |
|          | Acute algae toxicity     | ErC50<br>mg/l | 1,098    | 72 h      | Pseudokirchneriella<br>subcapitata | CONCAWE,<br>Brussels,<br>Belgium (2010)       | The aquatic toxicity was estimated by a        |
|          | Acute crustacea toxicity | EC50          | 0,2 mg/l | 48 h      | Daphnia magna                      | Study report<br>(1987)                        | other: As<br>described in: The<br>evaluation o |
|          | Fish toxicity            | NOEC<br>mg/l  | 0,252    | 28 d      | Oncorhynchus mykiss                | CONCAWE,<br>Brussels,<br>Belgium (2010)       | The aquatic toxicity was estimated by a        |
|          | Crustacea toxicity       | NOEC          | 1 mg/l   | 21 d      | Daphnia magna                      | SIDS Initial<br>Assessment<br>Report For SIAM | OECD Guideline<br>211                          |

### 12.2. Persistence and degradability

100 %; 15 d; aerob

(ECHA)

Readily biodegradable (according to OECD criteria).

### 12.3. Bioaccumulative potential



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No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

| CAS No   | Chemical name | Log Pow |
|----------|---------------|---------|
| 111-84-2 | nonane        | 5,65    |

#### **BCF**

| CAS No   | Chemical name | BCF | Species    | Source               |
|----------|---------------|-----|------------|----------------------|
| 111-84-2 | nonane        | 105 | calculated | Other company data ( |

#### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

No data available

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

No data available

### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

#### **Further information**

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

# Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

| 14.1. UN number or ID number:     | UN 1920 |
|-----------------------------------|---------|
| 14.2. UN proper shipping name:    | NONANES |
| 14.3. Transport hazard class(es): | 3       |
| 14.4. Packing group:              | III     |
| Hazard label:                     | 3       |
| Classification code:              | F1      |
| Limited quantity:                 | 5 L     |
| Excepted quantity:                | E1      |
| Transport category:               | 3       |
| Hazard No:                        | 30      |
| Tunnel restriction code:          | D/E     |

# Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1920 **NONANES** 14.2. UN proper shipping name:

14.3. Transport hazard class(es): 3



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| 14.4. Packing group:          | III                 |               |  |  |  |
| Hazard label:                 | 3                   |               |  |  |  |
| Classification code:          | F1                  |               |  |  |  |
| Limited quantity:             | 5 L                 |               |  |  |  |

E1

# Excepted quantity: Marine transport (IMDG)

| 14.1. UN number or ID number:  | UN 1920 |
|--------------------------------|---------|
| 14.2. UN proper shipping name: | NONANES |
|                                | _       |

| 14.3. Transport hazard class(es): | 3       |
|-----------------------------------|---------|
| 14.4. Packing group:              | III     |
| Hazard label:                     | 3       |
| Marine pollutant:                 | Р       |
| Special Provisions:               | -       |
| Limited quantity:                 | 5 L     |
| Excepted quantity:                | E1      |
| FmS·                              | F-F S-F |

# Air transport (ICAO-TI/IATA-DGR)

| 14.1. UN number or ID number:  | UN 1920 |
|--------------------------------|---------|
| 14.2. UN proper shipping name: | NONANES |

| _ |
|---|
|   |
| 4 |
|   |

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:220 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

# 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

# **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

Information according to Directive

E1 Hazardous to the Aquatic Environment

2012/18/EU (SEVESO III):

Additional information: P5c

**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.



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Water hazard class (D): 3 - highly hazardous to water

### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 9,11,12.

### Abbreviations and acronyms

Flam. Liq. 3: Flammable liquids, hazard category 3 Asp. Tox. 1: Aspiration hazard, hazard category 1 Skin Irrit. 2: Skin irritation, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3 Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1

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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### **Further Information**

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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.