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

1.1. Product identifier
Standard-Chek Kontrastrot Nr. 2

Further trade names
Article no. (user):
121.200.202 (1 L)
121.200.203 (10 L)
121.200.204 (200 L)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Penetration test

1.3. Details of the supplier of the safety data sheet
Company name: Helling GmbH
Street: Spoekerdamm 2
Place: D-25436 Heidgraben
Telephone: +49-4122-922-0
Fax: +49-4122-922-201
E-mail: info@helling.de
Internet: www.helling.de

1.4. Emergency telephone number: GIZ Nord Göttingen +49-(0)511-19240
(Information in German and English)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008
Hazard categories:
Serious eye damage/eye irritation: Eye Dam. 1
Carcinogenicity: Carc. 2
Aspiration hazard: Asp. Tox. 1
Hazard Statements:
May be fatal if swallowed and enters airways.
Causes serious eye damage.
Suspected of causing cancer.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling
Naphtha (petroleum), hydrosulfurized heavy; Low boiling point hydrogen treated naphtha
Secondary alcohol ethoxylates (3)
azo dyestuff based on o-toluidine

Signal word: Danger

Pictograms:

Hazard statements
H304 May be fatal if swallowed and enters airways.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container to industrial incineration plant.

2.3. Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-82-1</td>
<td>Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha</td>
<td>50 - 100 %</td>
</tr>
<tr>
<td>649-330-00-2</td>
<td>01-2119490979-12</td>
<td></td>
</tr>
<tr>
<td>68131-40-8</td>
<td>Secundary alcohol ethoxylates (3)</td>
<td>2,5 - 10,0 %</td>
</tr>
<tr>
<td>92257-31-3</td>
<td>azo dyestuff based on o-toluidine</td>
<td>1,0 - 2,5 %</td>
</tr>
<tr>
<td>296-120-8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
First aider: Pay attention to self-protection!

After inhalation
Provide fresh air. In case of respiratory tract irritation, consult a physician.

After contact with skin
Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary. After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion
Observe risk of aspiration if vomiting occurs. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2. Most important symptoms and effects, both acute and delayed
No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.
SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Atomized water. Foam. Extinguishing powder.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide.
Vapours can form explosive mixtures with air.
Danger of bursting container.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.
Special protective equipment for firefighters Wear chemical resistant suit.

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.
Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.
When using do not eat, drink or smoke.
Provide adequate ventilation.

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 exhaust ventilation at critical locations.

Advice on storage compatibility
Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No information available.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values
To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Protective and hygiene measures
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 or drink. Do not breathe aerosol.

Eye/face protection
During filling, metering and sampling should be used if possible: Framed glasses.

Hand protection
Suitable material: NR (Natural rubber (Caoutchouc), Natural latex).
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.
Protect skin by using skin protective cream.

Skin protection
Wear suitable protective clothing.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.
gas filtering equipment. Filter type: A

Environmental exposure controls
No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: red
Odour: characteristic

Test method

pH-Value: not applicable

Changes in the physical state
Melting point: not applicable
Initial boiling point and boiling range: > 200 °C
Flash point: 65 °C ASTM D 93

Flammability
Solid: not applicable
### Gas:
- Lower explosion limits: 0.7 vol. %
- Upper explosion limits: 6.5 vol. %
- Ignition temperature: 281 °C

**Auto-ignition temperature**
- Solid: not applicable
- Gas: not applicable

**Decomposition temperature:** not determined

### Oxidizing properties
Not oxidising.

**Vapour pressure:** 0.5 hPa (at 20 °C)

**Density (at 20 ºC):** 0.814 g/cm³ ASTM D 1481

**Water solubility:** not determined

**Partition coefficient:** not determined

**Viscosity / dynamic:** not applicable

**Viscosity / kinematic:** not determined

**Vapour density:** not determined

**Evaporation rate:** not determined

**Solvent separation test:** not determined

**Solvent content:** 66%

### 9.2. Other information
Solid content: not determined

In use, may form flammable/explosive vapour-air mixture.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
No risks worthy of mention.

#### 10.2. Chemical stability
No risks worthy of mention.

#### 10.3. Possibility of hazardous reactions
No risks worthy of mention.

#### 10.4. Conditions to avoid
Do not expose to temperatures above 50 °C.

#### 10.5. Incompatible materials
Reducing agents.

#### 10.6. Hazardous decomposition products
Gases/vapours, toxic. Decomposition under formation of: (Limited evidence of a carcinogenic effect.)
- Carbon monoxide
- Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects
Acute toxicity
Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>68131-40-8</td>
<td>Secondary alcohol ethoxylates (3)</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
After skin contact: slightly irritant but not relevant for classification. In rare cases the product can cause temporary erythema of the skin.
Following eye contact: Causes serious eye damage.

Sensitising effects
No sensitizing effect known.

Carcinogenic/mutagenic/toxic effects for reproduction
Suspected of causing cancer. ()
According to current knowledge not mutagen. According to current knowledge not reproduction toxic.

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
May be fatal if swallowed and enters airways.

Additional information on tests
NOEL (): 40 mg/kg/d

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>68131-40-8</td>
<td>Secondary alcohol ethoxylates (3)</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>1 - 10</td>
<td>96 h</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>3,1 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
Elimination from water is possible through precipitation or flocculation. Due to the consistency along with the low water solubility of the product a bioavailability is unlikely. This product can be eliminated from water to a large extent by abiotical procedures, e.g. adsorption to activated sludge.

12.3. Bioaccumulative potential
accumulation/evaluation: May accumulate in organisms.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
not applicable

12.6. Other adverse effects
No data available

Further information
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products
070704  WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors
Classified as hazardous waste.

Waste disposal number of used product
070104  WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and mother liquors
Classified as hazardous waste.

Waste disposal number of 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
This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:  No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:  No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):  No dangerous good in sense of this transport regulation.
14.4. Packing group:  No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:  No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:  No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):  No dangerous good in sense of this transport regulation.
14.4. Packing group:  No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:  No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:  No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):  No dangerous good in sense of this transport regulation.
14.4. Packing group:  No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:  No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:  No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):  No dangerous good in sense of this transport regulation.
14.4. Packing group:  No dangerous good in sense of this transport regulation.

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS:  no
14.6. Special precautions for user
none

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
none

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 28: Naphtha (petroleum), hydrosulfurized heavy; Low boiling point hydrogen treated naphtha
2004/42/EC (VOC):
85 % (691,9 g/l)

Additional information

National regulatory information
Employment restrictions: Observe restrictions to employment for juvenils according to the ‘juvenile work protection guideline’ (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 3 - highly water contaminating

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

SECTION 16: Other information

Changes
section 1, 2, 3, 7, 11, 16

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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

| H304 | May be fatal if swallowed and enters airways. |
| H318 | Causes serious eye damage. |
| H351 | Suspected of causing cancer. |
| H372 | Causes damage to organs (central nervous system) through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information
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 data for the hazardous ingredients were taken respectively from the last version of the sub-contractor’s safety data sheet.)