Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH), amended by Regulation
(EC) No. 453/2010

smart solution black GL

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

1.1 Product identifier

Trade name
Smart solution black GL

Registration number (REACH)
not relevant (mixture)

Other means of identification
Item code
4707/GL

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

Relevant identified uses
industrial use

paint

1.3 Details of the supplier of the safety data sheet

DISTRISERV
43 Rue Michel Gachet
13007 Marseille
France

Telephone: +33 (0) 9 79 58 61 00
e-mail: contact@seahawkpaints.eu

1.4 Emergency telephone number

Emergency information service
Austria : +431 406 43 43;
Belgium : +070 245 245 (7/7 24/24);
Bulgaria : +359 2 9154 409;
Czech republic tel +420 224 919 293, +420 224 915 402;
Denmark : 62 12 12 12;
Estonia : tel nationally 16662, from abroad (+372) 626 93 90;
Finland : (09) 471 977 (direct) or (09) 4711 (exchange);
France : + 33 (0) 1 45 42 59 59 (7/7 24/24);
Germany : 030/19240;
Hungary : +36 1 476 6464;
Ireland : 01 8092566 or 01 8379964;
Italie : 0659943733;
Lithuania : 370 5 236 20 52 ou 370 687 53 378;
Malta : 2545 0000;
Netherlands : 030-2748888;
New zealand : 0800 764 766 or 0800 611 116;
Norway : + 47 810 20 050;
Portugal : 808 250 143;
Romania : 021.318.36.06;
Slovakia : 421 2 5477 4166;
Spain : + 34 91 562 04 20;
Sweden : 112 ou 08-331231.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

GHS chapter - Hazard class and category - Hazard statement code(s)
2.6 flammable liquids Cat. 3 (Flam. Liq. 3) H226
3.1O acute toxicity (oral) Cat. 4 (Acute Tox. 4) H302
3.2 skin corrosion/irritation Cat. 2 (Skin Irrit. 2) H315
3.3 serious eye damage/eye irritation Cat. 1 (Eye Dam. 1) H318
3.8D specific target organ toxicity - single exposure (narcotic effects, drowsiness) Cat. 3 (STOT SE 3) H336
3.10 aspiration hazard Cat. 1 (Asp. Tox. 1) H304
4.1C hazardous to the aquatic environment - chronic hazard Cat. 2 (Aquatic Chronic 2) H411

Remarks
For full text of H-phrases: see SECTION 16.

Classification according to Directive 1999/45/EC (DPD)
Indication(s) of danger - Symbol codes - R-phrases
flammable R10
harmful Xn; R20-65
irritant Xi; R41
dangerous for the environment N; R51-53

Remarks
For full text of R-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word Danger

Pictograms
GHS02, GHS05, GHS07, GHS08, GHS09

Hazard statements
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Precautionary statements - prevention
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Repeated exposure may cause skin dryness or cracking.

Precautionary statements - response
P301+P310 IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of water.
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 at rest in a position 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.
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: get medical advice/attention.
P362 Take off contaminated clothing.
P370+P378 In case of fire: Use foam to extinguish - never use water.
P391 Collect spillage.

Precautionary statements - storage
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary statements - disposal
P501 Dispose of contents/container to industrial combustion plant.

Hazardous ingredients for labelling:
- Ceramic materials and wares, chemicals, Tralopyril,
- Solvent naphtha (petroleum), light arom.

2.3 Other hazards
Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances
not relevant (mixture)

3.2 Mixtures

Description of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>wt%</th>
<th>Classification acc. to 1272/2008/EC</th>
<th>Pictograms</th>
<th>Classification acc. to 67/548/EEC</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramic materials and wares, chemicals</td>
<td>CAS No 66402-68-4</td>
<td>≥ 25 - &lt; 50</td>
<td>Eye Dam. 1 / H318</td>
<td></td>
<td>irritant; Xi; R41</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC No 266-340-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>CAS No 64742-95-6</td>
<td>≥ 10 - &lt; 25</td>
<td>Flam. Liq. 3 / H226 Skin Irr. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411</td>
<td>flammable; R10 harmful; Xn; R65 irritating; Xi; R38 R67 dangerous for the environment; N; R51-53</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC No 265-199-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tralopyril</td>
<td>CAS No 122454-29-9</td>
<td>≥ 5 - &lt; 10</td>
<td>Acute Tox. 3 / H301 Acute Tox. 3 / H331 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410</td>
<td>toxic; T; R23 dangerous for the environment; N; R50-53</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

United Kingdom
item 000000056 SDS-03
**Safety Data Sheet**


**smart solution black GL**

**SECTION 4: First aid measures**

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

**SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.
5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surround-
ings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Remove persons to safety.

For emergency responders
Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up
Advises on how to contain a spill
Covering of drains.

Advises on how to clean up a spill
Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques
Use of adsorbent materials.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Recommendations

• Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

• Warning
Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.
Advice on general occupational hygiene
Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities
Managing of associated risks
• Explosive atmospheres
Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.
• Flammability hazards
Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Incompatible substances or mixtures
Observe hints for combined storage.
Consideration of other advice
• Ventilation requirements
Use local and general ventilation. Ground/bond container and receiving equipment.
• Packaging compatibilities
Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)
See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
National limit values

Occupational exposure limit values (Workplace Exposure Limits)

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of agent</th>
<th>CAS No</th>
<th>Identifier</th>
<th>TWA [ppm]</th>
<th>TWA [mg/m³]</th>
<th>STEL [ppm]</th>
<th>STEL [mg/m³]</th>
<th>Source</th>
<th>wt%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>IOELV</td>
<td>100</td>
<td>442</td>
<td>200</td>
<td>884</td>
<td>2000/39/E C</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>UK</td>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>WEL</td>
<td>100</td>
<td>441</td>
<td>125</td>
<td>552</td>
<td>EH40/200 5</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified
TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Relevant DNELs/DMELs/PNECs and other threshold levels
• relevant DNELs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Protection goal, route of exposure</th>
<th>Used in</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramic materials and wares, chemicals</td>
<td>66402-68-4</td>
<td>DNEL</td>
<td>15.63 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - local effects</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls
General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection
Wear eye/face protection.

Skin protection

• hand protection
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

• other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state    liquid
Colour            black
Odour             characteristic

Other physical and chemical parameters
pH (value)        not determined
Melting point/freezing point not determined
Initial boiling point and boiling range not determined
Flash point      40.5 °C (determination of flash point - rapid equilibrium closed cup method)
Evaporation rate not determined
Flammability (solid, gas) not relevant (fluid)
Explosive limits not determined
Vapour pressure  5.1 mmHg at 25 °C
Density          1.32 - 1.44
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition
See below "Conditions to avoid".
No known hazardous reactions.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition
• if heated
  risk of ignition

10.2 Chemical stability
See below "Conditions to avoid".

10.3 Possibility of hazardous reactions
No known hazardous reactions.

10.4 Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hints to prevent fire or explosion
Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Physical stresses which might result in a hazardous situation and have to be avoided
  strong shocks

10.5 Incompatible materials
There is no additional information.

10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.
SECTION 11: Toxicological information

11.1 Information on toxicological effects
Test data are not available for the complete mixture.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity
Harmful if swallowed.

• Acute toxicity estimate (ATE)
oral 2,000
• Acute toxicity of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>ATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tralopyril</td>
<td>122454-29-9</td>
<td>oral</td>
<td>100</td>
</tr>
<tr>
<td>Tralopyril</td>
<td>122454-29-9</td>
<td>inhalation: vapour</td>
<td>3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>inhalation: vapour</td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramic materials and wares, chemicals</td>
<td>66402-68-4</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>Ceramic materials and wares, chemicals</td>
<td>66402-68-4</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2500 mg/kg</td>
<td>rabbit</td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>rabbit</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitisation
Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.
Specific target organ toxicity (STOT)

• Specific target organ toxicity - single exposure
  May cause drowsiness or dizziness.

• Specific target organ toxicity - repeated exposure
  Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
  May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity
  Toxic to aquatic life.

Aquatic toxicity (chronic)
  May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>EC50</td>
<td>15.41 mg/l</td>
<td>microorganisms</td>
<td>40 h</td>
</tr>
</tbody>
</table>

12.2 Process of degradability
  Data are not available.

12.3 Bioaccumulative potential
  Data are not available.

12.4 Mobility in soil
  Data are not available.

12.5 Results of PBT and vPvB assessment
  Data are not available.

12.6 Other adverse effects
  Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information
  Solvent reclamation/regeneration.

Sewage disposal-relevant information
  Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings
  It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.
13.2 Relevant provisions relating to waste

Properties of waste which render it hazardous

H 3-B ‘Flammable’:
liquid substances and preparations having a flash point equal to or greater than 21 °C and less than or equal to 55 °C.

13.3 Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

1263

14.2 UN proper shipping name

PAINT

14.3 Transport hazard class(es)

Class 3 (flammable liquids)

14.4 Packing group

III (substance presenting low danger)

14.5 Environmental hazards

hazardous to the aquatic environment (Solvent naphtha (petroleum), light arom.)

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number

1263

Proper shipping name

PAINT

Class

3

Classification code

F1

Packing group

III

Danger label(s)

3 + "fish and tree"

Environmental hazards

yes (hazardous to the aquatic environment)

Special provisions (SP)

163, 367, 640E, 650

Excepted quantities (EQ)

E1

Limited quantities (LQ)

5 L

Transport category (TC)

3

Tunnel restriction code (TRC)

D/E

Hazard identification No

30
• International Maritime Dangerous Goods Code (IMDG)

UN number: 1263
Proper shipping name: PAINT
Class: 3
Subsidiary risk(s): -
Marine pollutant: yes (hazardous to the aquatic environment)
Packing group: III
Danger label(s): 3 + "fish and tree"

Special provisions (SP): 163, 223, 955
Excepted quantities (EQ): E1
Limited quantities (LQ): 5 L
EmS: F-E, S-E
Stowage category: E

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number: 1263
Proper shipping name: Paint
Class: 3
Environmental hazards: yes (hazardous to the aquatic environment)
Packing group: III
Danger label(s): 3

Special provisions (SP): A3, A72
Excepted quantities (EQ): E1
Limited quantities (LQ): 10 L

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

15.1.1. • Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content: 328 g/l

National regulations (Austria)
This Regulation shall not apply:

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

### 15.2 Chemical Safety Assessment

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

### SECTION 16: Other information

#### Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox.</td>
<td>acute toxicity</td>
</tr>
<tr>
<td>ADN</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>hazardous to the aquatic environment - acute hazard</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>hazardous to the aquatic environment - chronic hazard</td>
</tr>
<tr>
<td>Asp. Tox.</td>
<td>aspiration hazard</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or toxic for Reproduction</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>DPD</td>
<td>Dangerous Preparations Directive (1999/45/EC)</td>
</tr>
<tr>
<td>EC No</td>
<td>The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)</td>
</tr>
<tr>
<td>EH40/2005</td>
<td>EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits (<a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a>)</td>
</tr>
<tr>
<td>EmS</td>
<td>Emergency Schedule</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>seriously damaging to the eye</td>
</tr>
<tr>
<td>Eye Irrit.</td>
<td>irritant to the eye</td>
</tr>
<tr>
<td>F+</td>
<td>extremely flammable</td>
</tr>
<tr>
<td>Flam. Liq.</td>
<td>flammable liquid</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>IATA/DGR</td>
<td>Dangerous Goods Regulations (DGR) for the air transport (IATA)</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of “Marine Pollutant)</td>
</tr>
<tr>
<td>N</td>
<td>dangerous for the environment</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
</tbody>
</table>
### Descriptions of used abbreviations

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
</tr>
<tr>
<td>REACH</td>
<td>Registration, Evaluation, Authorisation and Restriction of Chemicals</td>
</tr>
<tr>
<td>RID</td>
<td>Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)</td>
</tr>
<tr>
<td>Skin Corr.</td>
<td>corrosive to skin</td>
</tr>
<tr>
<td>Skin Irrit.</td>
<td>irritant to skin</td>
</tr>
<tr>
<td>STOT SE</td>
<td>specific target organ toxicity - single exposure</td>
</tr>
<tr>
<td>T</td>
<td>toxic</td>
</tr>
<tr>
<td>VbF</td>
<td>ordinance on combustible liquids (Austria)</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
<tr>
<td>Xi</td>
<td>irritant</td>
</tr>
<tr>
<td>Xn</td>
<td>harmful</td>
</tr>
</tbody>
</table>

### Key literature references and sources for data

- Supplier
- CLP (annexe VI and/or notification)
- ECHA

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H226</td>
<td>flammable liquid and vapour</td>
</tr>
<tr>
<td>H301</td>
<td>toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>harmful if swallowed</td>
</tr>
<tr>
<td>H304</td>
<td>may be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H315</td>
<td>causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>causes serious eye damage</td>
</tr>
<tr>
<td>H331</td>
<td>toxic if inhaled</td>
</tr>
<tr>
<td>H332</td>
<td>harmful if inhaled</td>
</tr>
<tr>
<td>H336</td>
<td>may cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H400</td>
<td>very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H411</td>
<td>toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>R10</td>
<td>flammable</td>
</tr>
<tr>
<td>R11</td>
<td>highly flammable</td>
</tr>
</tbody>
</table>
This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

### Disclaimer
This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Written by NATURAKEM (www.naturakem.fr).

---

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>R20</td>
<td>harmful by inhalation</td>
</tr>
<tr>
<td>R23</td>
<td>toxic by inhalation</td>
</tr>
<tr>
<td>R38</td>
<td>irritating to skin</td>
</tr>
<tr>
<td>R41</td>
<td>risk of serious damage to eyes</td>
</tr>
<tr>
<td>R50/53</td>
<td>very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>R51</td>
<td>toxic to aquatic organisms</td>
</tr>
<tr>
<td>R51/53</td>
<td>toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>R53</td>
<td>may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>R65</td>
<td>harmful: may cause lung damage if swallowed</td>
</tr>
<tr>
<td>R67</td>
<td>vapours may cause drowsiness and dizziness</td>
</tr>
</tbody>
</table>