

## 1 Identification of the substance/preparation and of the company/undertaking



- **Product details**
- **Trade name:** **EnergyGuard DCC Top Coat**  
**According the DCC technology!**
- **Article number:** DCC173i2-A
- **Application of the substance / the preparation** Paint
- **Manufacturer/Supplier:**  
Monopoly B. V.  
Lassusstraat 9A  
1075 GV Amsterdam  
The Netherlands  
Tel: (+31)-20-679-10-27  
info@energyguardcorp.com
- **Further information obtainable from:** Product Safety Department
- **Information in case of emergency:** Tel: (+31)-20-679-10-27

## 2 Hazards identification

- **Hazard description:**



*Xi Irritant*

- **Information concerning particular hazards for human and environment:**  
*The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.*  
R 10 Flammable.  
R 43 May cause sensitisation by skin contact.  
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*
- **GHS label elements**
  -  **Warning**  
H226 - Flammable liquid and vapour.
  -  **Warning**  
H317 - May cause an allergic skin reaction.  
  
H412 - Harmful to aquatic life with long lasting effects.
- **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.
- **Response:**  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 2)

**Trade name: EnergyGuard DCC Top Coat**  
**According the DCC technology!**

(Contd. of page 1)

- P321 Specific treatment (see on this label).  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.  
 P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

• **Storage:**

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

• **Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/information on ingredients

• **Chemical characterization**

• **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 136210-32-7 ELINCS: 412-060-9	bis(4-(1,2-bis(ethoxycarbonyl)ethy-lamino)-3-methylcyclohexyl)methane Xi; R 43-52/53 Warning: 3.4.S/1 4.1.C/3	75-100%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R 10-66-67 Warning: 2.6/3; 3.8/3	7-10%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Xi; R 10-36 Warning: 2.6/3; 3.3/2	1-2.5%

• **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

• **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

• **After eye contact:** Rinse opened eye for several minutes under running water.

• **After swallowing:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

• **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.

• **For safety reasons unsuitable extinguishing agents:** Water with full jet

• **Protective equipment:** No special measures required.

### 6 Accidental release measures

• **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

• **Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

• **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

**Trade name: EnergyGuard DCC Top Coat**  
**According the DCC technology!**

(Contd. of page 2)

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

123-86-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
108-65-6 2-methoxy-1-methylethyl acetate	
WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/  
the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

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.

- **Penetration time of glove material**

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

(Contd. on page 4)

**Trade name: EnergyGuard DCC Top Coat**  
**According the DCC technology!**

(Contd. of page 3)

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **General Information**

**Form:** Fluid  
**Colour:** According to product specification  
**Odour:** Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 124°C

· **Flash point:** 27°C

· **Ignition temperature:** 370°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Density at 20°C:** 1.028 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **Viscosity:**  
**Dynamic at 20°C:** 20 mPas

· **Solvent content:**  
**Organic solvents:** 10.0 %

· **Solids content:** 90.0 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

(Contd. on page 5)

**Trade name: EnergyGuard DCC Top Coat**  
**According the DCC technology!**

(Contd. of page 4)

- **Sensitisation** May cause sensitisation by skin contact.

## 12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Harmful to aquatic organisms

## 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1263 PAINT

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** PAINT

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label:** 3

(Contd. on page 6)

**Trade name: EnergyGuard DCC Top Coat**  
**According the DCC technology!**

(Contd. of page 5)

- **Packaging group:** III
- **Proper shipping name:** PAINT
- **UN "Model Regulation":** UN1263, PAINT, 3, III

## 15 Regulatory information

- **Labelling according to EU guidelines:**
- **Code letter and hazard designation of product:**



*Xi Irritant*

- **Hazard-determining components of labelling:**  
*bis(4-(1,2-bis(ethoxycarbonyl)ethy-lamino)-3-methylcyclohexyl)methane*
- **Risk phrases:**  
10 *Flammable.*  
43 *May cause sensitisation by skin contact.*  
52/53 *Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- **Safety phrases:**  
23 *Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).*  
24/25 *Avoid contact with skin and eyes.*  
37 *Wear suitable gloves.*  
51 *Use only in well-ventilated areas.*  
61 *Avoid release to the environment. Refer to special instructions/safety data sheets.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant R-phrases**  
10 *Flammable.*  
36 *Irritating to eyes.*  
43 *May cause sensitisation by skin contact.*  
52/53 *Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*  
66 *Repeated exposure may cause skin dryness or cracking.*  
67 *Vapours may cause drowsiness and dizziness.*
- **Department issuing MSDS:** *product safety department*
- **Contact:** *Tel: (+31)-20-679-10-27*
- **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)*  
*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*  
*ICAO: International Civil Aviation Organization*  
*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*  
*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*