

## SAFETY DATA SHEET

(KROWN) **MC86 PRO BON**  
Product code: MC86  
Issued on: 17.02.2012  
Revised: 17.01.2015 Version 1.1

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### 1. MATERIAL / MIXTURE AND ORGANIZATION / COMPANY IDENTIFICATION

#### 1.1. Product identification

KROWN MC86 PRO BON  
KROWN MC86 PRO BON CLEANER

#### 1.2. The intended usages of the material or mixture and those not recommended

Foaming carpet cleaning agent

#### 1.3. Information about the supplier of the safety data sheet

**Manufacturer:** Canadian Krown Dealers Inc.  
35 Magnum Drive, Schomberg, Ontario, LOG 1T0, Canada  
**Telephone:** +1 800-267-5744  
**E-mail:** info@krown.com  
**Website:** www.krown.com  
**Importer in the EU:** SIA KROWN EU  
Ganību dambis 25f, Riga, LV 1005, Latvia  
**Telephone:** +371 67491330  
**Fax:** +371 67491331  
**E-mail of the competent person:** info@krowneurope.com  
**Website:** www.krowneurope.com

#### 1.4. Telephone for emergency situations

State fire and rescue service: 01, 112  
State police: 02, 112  
Emergency medical assistance service: 03, 113  
State Poison Centre Drug and Poison Information Centre: +371 67042473  
Manufacturer: +1 800-267-5744

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the material/ mixture

##### Classification in accordance with Regulation (EC) No. 1272/2008

Physical and chemical hazards	Not classified.
Human health	Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Irrit. 2; H319.
Environment	Not classified.

#### 2.2. Label elements

##### Labelling in accordance with Regulation (EC) No.1272/2008

##### Hazards pictographs:



**Signal word:**

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Attention

## Hazard statements:

H302 Harmful if swallowed.  
H315 Irritates skin.  
H319 Causes serious eye irritation.

## Precautionary statements:

### Prevention

P102 Keep away from children  
P280 Use protective gloves/ protective clothing/ eye protection/ face protection.

### Response

P301+P312 IF SWALLOWED, contact Poison Centre / doctor /, if you feel unwell.  
P302+P352 IF ON SKIN: wash with plenty of water/soap.  
P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
+P338  
P308+P313 If exposed or concerned: call doctor.

### Disposal

P501 Dispose of content/ container in accordance with local regulations.

**Contents:** 2-butoxyethanol, sodium laurylsulfate  
>15% anionic surfactant

## 2.3. Other hazards

The mixture does not correspond to *PBT* or *vPvB* criteria.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Composition

Not applicable.

### 3.2. Mixtures

Names of components	CAS No.	EINECS No.	RERACH registration No.	Concentration, % of weight	Classification
Sodium laurylsulfate	9004-82-4	No data	No data	10-30%	Xn;R22 Xi;R36 ----- Acute Tox. 4; H302 Eye Irrit. 2; H319
2-butoxyethanol	111-76-2	203-905-0	01-2119475108-36-0000 ÷ 01-2119475108-36-0012	5-15%	Xn; R20/21/22 Xi; R36/38 ----- Acute Tox. 4; H332, H312, H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315

### Additional information:

Please see full R phrases and H statements in Section 16.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

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### **Inhalation**

Move person in fresh air.

### **Eye contact**

Immediately rinse with large amount of water for at least 15 minutes. Before rinsing make sure there are no contact lenses in the eyes. Keep the eyelids open during rinsing. If the irritation remains, seek medical attention.

### **Skin contact**

Wash contact area with water and soap. If the irritation remains, seek medical attention.

### **Ingestion**

Rinse mouth with water. Drink large amount of water. Do not induce vomiting. Do not give anything orally to an unconscious person. Immediately seek medical attention.

### **Personal protective equipment of first aid provider**

No other relevant information available.

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

### **Effects of acute exposure**

#### **In contact with eyes**

Concentrated material may cause eye tissue irritation.

#### **In contact with skin**

May cause skin irritation

Initial exposure paths

[ ] - Inhalation [X] – Swallowing [ ] - Absorption

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

No other relevant information about the effects of the mixture available.

## **5. FIREFIGHTING MEASURES**

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### **5.1. Extinguishing media**

Non-flammable

#### **Suitable extinguishing media**

Use water spray, dry chemicals, carbon dioxide, foam. Use extinguishing media in accordance to circumstances.

#### **Non-suitable extinguishing media**

No indicated.

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

No special hazards of the substance or mixture indicated.

### **5.3. Advice for fire fighters**

No special advice for fire fighters indicated.

## **6. ACCIDENTAL RELEASE MEASURES**

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

No special procedures indicated.

### **6.2. Environmental precautions**

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Immediately inform the responsible environmental services about the accident. Prevent release to the environment.

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

#### Small leaks

Rinse with water.

#### Large leaks

Collect with absorbing material and transfer for disposal.

### 6.4. Reference to other sections

For waste disposal see Section 13, personal protective equipment indicated in Section 8.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Wear gloves, when handling concentrated material. Prevent skin and eye contact. Not to be taken internally.

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

Prevent freezing. Keep in cool, dry place in sealed containers.

### 7.3. Specific end use(s)

Foaming carpet cleaning agent

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Exposure limit values

Name of the component	8 h OEL mg/m <sup>3</sup>	8h OEL ppm	15min OEL mg/m <sup>3</sup>	15min OEL ppm	Notes
2-butoxyethanol	98	20	246	50	Skin

*OEL – occupational exposure limit values in accordance to Annex 1, Cabinet of Ministers' Regulations No. 325 of 15.05.2007*

Note "Skin" by the occupational exposure limit value indicate that the material is absorbed through skin. Occupational exposure limit values for the contents of the mixture correspond to those approved in the Republic of Latvia.

#### 8.1.2. Derived No Effect Levels (DNEL) and Prescribed No Effect Concentration (PNEC)

##### Derived No Effect Levels (DNEL)

2-butoxyethanol, CAS No. 111-76-2				
DNEL				
Type of exposure	Contractors			
	Acute exposure, local	Acute exposure, systemic	Chronic exposure, local	Chronic exposure, systemic
Inhalation	246 mg/m <sup>3</sup>	663 mg/m <sup>3</sup>	Hazards have been identified, but DNEL is not	98 mg/m <sup>3</sup>

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			available.	
Dermal	89mg/kg	Hazards have been identified, but DNEL is not available.	75mg/kg	Hazards have been identified, but DNEL is not available.
<b>2-butoxyethanol, CAS No. 111-76-2</b>				
<b>DNEL</b>				
Type of exposure	<b>End-users</b>			
	Acute exposure, local	Acute exposure, systemic	Chronic exposure, local	Chronic exposure, systemic
Per oral	13.4 mg/kg	Hazards have been identified, but DNEL is not available.	3.2 mg/kg	Hazards have been identified, but DNEL is not available.
Inhalation	246 mg/m <sup>3</sup>	Hazards have been identified, but DNEL is not available.	123 mg/m <sup>3</sup>	49 mg/m <sup>3</sup>
Dermal	44.5 mg/kg	Hazards have been identified, but DNEL is not available.	38 mg/kg	Hazards have been identified, but DNEL is not available.
<b>2-butoxyethanol, CAS No. 111-76-2</b>				
<b>PNEC</b>				
The objective of environmental protection		Value of PNEC		
Freshwater		8.8 mg/l		
Freshwater sediments		8.14 mg/kg		
Seawater		0.88 mg/l		
Seawater sediments		Hazards have been identified, but no PNEC are available		
Food chain		Hazards have been identified, but no PNEC are available		
Micro-organisms in sewage treatment systems		463 mg/l		
Soil (farming)		2.8 mg/kg		
Air		Hazards have been identified, but no PNEC are available		

Additional occupational exposure limits, that may cause possible harm during processing:

<b>2-butoxyethanol, CAS No. 111-76-2</b>	
NOAEL 100 mg/l (daphnia) (21 d., Daphnia magna; OECD 211)	
> 100 mg/l (fish) (21 d., Brachydanio rerio)	

### 8.2. Exposure controls

#### 8.2.1. Adequate technical management

**Technical measures:** Local exhaust ventilation.

#### 8.2.2. Such individual protection measures as personal protective equipment

The selection of personal protective equipment may differ based on the circumstances of use.

**Eye/face protection:** If eye contact is possible, use protective goggles (EN166).

**Hand protection:** Use impervious protective gloves (EN374).

**Body protection:** For normal use, not required. Work clothing recommended (for example, protective footwear and protective, long-sleeved clothing in accordance with the requirements of EN ISO 20345).

**Respiratory protection:** For normal use, not required.

**Thermal hazards:** Not applicable.

**Hygienic measures:** Recommended to comply with the general safety and personal hygienic measures, when handling chemical substances. Wash hands before breaks and after work.

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### 8.2.3. Environmental risk management

Information not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

a) appearance	Yellow liquid
b) odour	Data not available
c) odour threshold	Not applicable
d) pH	8.5-9.5
e) melting / freezing point	0 °C
f) boiling temperature and boiling temperature range	100 °C
g) flash temperature	Not applicable
i) flammability (for solids, gasses)	Non-flammable
j) upper/ lower flammability or explosive limit	Not applicable
h) evaporation rate (water=1)	Not applicable
k) vapour pressure (mm Hg)	Not specified
l) vapour density (air=1)	Data not available
m) relative density	1.016
n) solubility in water	Outstanding
o) partition coefficient: n-octanol/water	Data not available
p) ignition temperature	Not applicable
q) degradation temperature	Data not available
r) viscosity	Data not available
s) explosion hazard	Data not available
t) oxidation properties	Data not available

### 9.2. Other information

Data not available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Data not available.

### 10.4. Conditions to avoid

Do not store with strong acids and oxidisers.

### 10.5. Incompatible materials

Oxidising materials.

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### 10.6. Hazardous decomposition products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological information

#### a) acute toxicity

No data available about the toxicity of the mixture.

#### Component toxicity

##### Sodium laurylsulfate, CAS No. 9004-82-4 – acute toxicity

LD50 – 1620 mg/kg (rat, ingestion)

##### 2-butoxyethanol, CAS No. 111-76-2 – acute toxicity

#### Acute toxicity

LD50 – 470 mg/kg (rat, ingestion)

LD50 – 220 mg/kg (rabbit, through skin)

LC50 – 2 mg/l/4h (rat, inhalation)

#### b) caustic irritation

Prolonged exposure may cause skin dryness.

#### c) serious eye damage/ irritation

Concentrated mixture may cause moderate irritation, if in contact with eyes.

#### d) respiratory or skin sensitization

No data available regarding sensitizing effect of the mixture or components.

#### e) germ cell mutagenicity

No data available regarding mutagenic effect of the mixture or components.

#### f) carcinogenicity

No data available regarding carcinogenic effect of the mixture or components.

#### g) reproductive toxicity

No data available regarding reproductive toxicity of the mixture or components.

#### h) Specific target organ toxicity, single exposure

##### In contact with eyes

Concentrated material may cause skin tissue irritation

##### In contact with skin

May cause skin irritation

##### If swallowed

Harmful, if swallowed.

#### i) specific target organ toxicity, repeated exposure

May cause skin dryness.

#### j) hazards caused by inhalation

No data available regarding hazards caused by inhalation of the mixture.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available regarding toxicity of the mixture.

#### Component toxicity

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### **2-butoxyethanol, CAS No. 111-76-2 – acute toxicity**

#### **Fish**

LC50 (96 h) 1341 mg/l, *Lepomis macrochirus* (Bluegill)

#### **Aquatic invertebrates**

EC50 (24h) 1720 mg/l, *Daphnia magna* (daphnia)

### **12.2. Persistence and degradability**

The product is easily biologically degradable.

The anionic surfactants of this mixture correspond to the biological degradability requirements set out in the Regulation (EC) No. 648/2004 on detergents. Data certifying this assumption are stored for presentation to competent institutions of Member states and are available upon direct request or upon the request of the manufacturer of the detergent.

### **12.3. Bioaccumulative potential**

No bioaccumulation expected.

**2-butoxyethanol, CAS No. 111-76-2** log Pow 0.81 (25°C)

### **12.4. Mobility in soil**

The mixture is water soluble and easily moves in soil.

### **12.5. Results of PBT and vPvB assessment**

No data available on the results of PBT and vPvB assessment.

### **12.6. Other adverse effects**

Prevent leakage of concentrated mixture into water bodies and drains.

## **13. DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

Comply with the legislative documents of the EU and the Republic of Latvia, regulating waste treatment.

#### **Product residue and wastes**

Prevent discharge into drains. Do not store with municipal waste. Transfer waste for disposal or recycling to a licensed waste treatment company.

#### **Waste code**

070601 Aqueous washing liquids and mother liquors

#### **Container and packaging waste**

When possible, recycle containers and packaging free from product residue. Only completely emptied containers may be recycled.

#### **Waste codes**

If the container is free from product residue

150102 Plastic packaging

If the container contains product residue

150110 Packaging containing hazardous residue or contamination

#### **Additional information for waste treatment company personnel**

It is advised to comply with the general protective and hygiene measures when working with chemical substances.

## **14. TRANSPORT INFORMATION**

### **14.1 UN number**



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Not classified.

### 14.2. UN proper shipping name

Not classified.

### 14.3. Transport hazard class(-es)

ADR/RID/ADN -  
IMDG -  
ICAO/IATA class/ section -  
Hazard label -

### 14.4. Packaging group

ADR/RID/ADN packaging group -  
IMDG packaging group -  
ICAO/IATA packaging group -

### 14.5. Environmental hazards

Not classified.

### 14.6. Special precautions for user

Not classified.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## 15. REGULATORY INFORMATION

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

Regulation (EC) No. 1907/2006 (18 December, 2006) of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Regulation (EC) No. 1272/2008 (16 December, 2008) of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Commission Regulation (EU) No 453/2010 (20 May 2010) amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Commission Regulation (EU) No 487/2013 (8 May 2013) amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 648/2004 (31 March, 2004) of the European Parliament and of the Council concerning detergents.

### 15.2. Chemical risk assessment

No data on chemical risk assessment

## 16. OTHER INFORMATION

Developed on: 17.02.2012

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Developed by: J. Brideau (800) 267-5744  
Reviewed: on 17 January, 2015, SIA "Retorte"  
Reviewed Sections 1-15 in correspondence with the current legislation of the EU.

### Information sources

Information has been reviewed and supplemented, based on the safety data sheet developed by the manufacturer and existing legislation.

### Classification in accordance with Regulation of the Council 67/548/EEC and Directive 1999/45/EC

Xn; R22, Xi; R36/38

### Labelling in accordance with 1999/45/EC

#### Hazard labels

Xi



Irritating

#### Hazard statements

R22 Harmful, if swallowed.  
R36/38 Irritating to the eyes and skin.

#### Safety phrases

S2 Keep away from children.  
S24/25 Prevent contact with eyes and skin.  
S26 In case of contact with eyes, rinse immediately with large amount of water and seek medical attention.  
S28 In case of contact with skin, rinse immediately with large amount of ... (indicated by manufacturer).  
S36/37/39 Wear suitable protective clothing, protective gloves and eye or face protection.  
S46 If swallowed, immediately seek medical attention and show this container or label.

**Contents:** 2-butoxyethanol, sodium laurylsulfate

Contains: >15% anionic surfactants

### Section 2 and 3 chemical material effect descriptions (R phrases) and hazard labels (H label) in full:

R22 Harmful, if swallowed.  
R36 Irritating to the eyes.  
R20/21/22 Harmful by inhalation, in contact with skin, if swallowed.  
R36/38 Irritating to eyes and skin.

Acute Tox. 4 Acute toxicity, Hazard Category 4  
H302 Harmful if swallowed.  
Eye Irrit. 2 Eye irritation, Hazard category 2  
H319 Causes serious eye irritation  
H312 Harmful in contact with skin  
H332 Harmful if inhaled  
Skin Irrit. 2 Skin irritation, Hazard Category 2  
H315 Irritates skin

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### Abbreviations and acronyms used in the safety data sheet:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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

EINECS: European Inventory of Existing Commercial Chemical Substances

### Disclaimer

The information in this safety data sheet is based on the data provided by the product manufacturer, which is to be deemed correct; however, the product importer, nor its manufacturer shall guarantee that this information is comprehensive, nor shall bare any responsibility of the consequences caused by the use of this information. It is the responsibility of the user of the product, to evaluate the information provided here and its applicability to the current circumstances of the product usage, as well as to carry out all necessary safety procedures, when using this product.

**End of safety data sheet**