

SAFETY DATA SHEET

(Krown) **POWERFUL MULTI-PURPOSE DEGREASER**
Product code: MP21CR
Issued on: 03.12.2013
Revised: 13.06.2014 Version 1.1

1. MATERIAL / MIXTURE AND ORGANIZATION / COMPANY IDENTIFICATION

1.1. Product identification

KROWN POWERFUL MULTI-PURPOSE DEGREASER

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

Multi purpose cleaner / degreaser

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.krow.com

Importer in the EU: **SIA KROWN FACTORY**
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 of the Council 67/548/EEC and Directive 1999/45/EC

Not classified.

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

Physical and chemical hazards Not classified.

Human health Not classified.

Environment Not classified.

2.2. Label elements

Labelling (Regulation (EC) No.1272/2008)

Hazards pictograms: Not required

Signal word: Not required

Hazard statements:

No

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Precautionary statements:

P102 Keep away from children

P301+P312 IF SWALLOWED, contact Poison Centre / doctor /, if you feel unwell.

Contents: 2-butoxyethanol

Contains: <5% 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 dodecylbenzosulfonate	25155-30-0	246-680-4	-	1-5%	Xn; R22 Xi; R37/38, R41 ----- Acute Tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318
2-butoxyethanol	111-76-2	203-905-0	-	1-5%	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

Inhalation

Move the victim in fresh air. If the irritation remains, seek medical attention.

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. If the irritation remains, seek medical attention.

Ingestion

Rinse mouth with water. Drink several glasses of water. Do not cause vomiting. In case of stomach problems, seek medical attention.

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Personal protective equipment of first aid provider

No other relevant information available.

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

Accidental ingestion of large quantities may cause nausea, diarrhoea and irritation of intestinal mucosa.

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

5.1. Extinguishing media

Non-flammable

Suitable extinguishing media

Use water spray, dry chemicals, carbon dioxide, foam. Use extinguishing media based on the circumstances.

Non-suitable extinguishing media

No indicated.

5.2. Special hazards arising from the substance or mixture

No special hazards indicated.

5.3. Advice for firefighters

No special advice indicated.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

No special procedures indicated.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Rinse the place of leakage with water. Collect the mixture for reuse, if possible.

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

Prevent skin and eye contact. Not to be taken internally.

7.2. Conditions for safe storage, including any incompatibilities

Prevent freezing.

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7.3. Specific end use(s)

Multi-purpose cleaner / degreaser.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Exposure limit values

Name of the component	8 h OEL mg/m ³	8h OEL ppm	15min OEL mg/m ³	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 ³	663 mg/m ³	Hazards have been identified, but DNEL is not available.	98 mg/m ³
Dermal	89mg/kg	Hazards have been identified, but DNEL is not available.	75mg/kg	Hazards have been identified, but DNEL is not available.
2-butoxyethanol, CAS No. 111-76-2 DNEL				
Type of exposure	End-users			
	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 ³	Hazards have been identified, but DNEL is not available.	123 mg/m ³	49 mg/m ³
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.
2-butoxyethanol, CAS No. 111-76-2 PNEC				
Environmental objective		PNEC value		
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		463 mg/l		

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systems	
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:

2-butoxyethanol, CAS No. 111-76-2

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

General instructions: Preventive measures – minimize exposure to the effects of liquid, vapour, mist or fumes. In case of emergency, see Section 6.

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 possible eye contact, use goggles (EN166).

Hand protection: For normal use, not required. Nitrile protective gloves (EN374) recommended.

Body protection: Use work clothing (for example. safety footwear and long-sleeved protective clothing in correspondence to EN ISO 20345 requirements).

Respiratory protection: For normal use, not required. When exceeding occupational exposure limit (OEL): Filter A (EN 14387), identification colour – brown.

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.

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 | Green liquid. |
| b) odour | Data not available |
| c) odour threshold | Not specified |
| d) pH | 8.9-9.9 |
| e) melting / freezing point | 0 °C |
| f) boiling temperature and boiling | 100 °C |

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temperature range

g) flash temperature Not applicable

h) evaporation rate (water=1) >1

i) flammability (for solids, gasses) Not applicable

j) upper/ lower flammability or explosive limit Not specified

k) vapour pressure (mm Hg) Data not available

l) vapour density (air=1) 0.7

m) relative density 1.005 g/cm³

n) solubility in water Water-soluble

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

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Do not store with strong acids and oxidizers. Prevent freezing.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Unknown.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological information

a) acute toxicity

No data available regarding toxicity of the mixture.

Component toxicity

Sodium dodecylbenzosulfonate, CAS No. 25155-30-0

Acute toxicity

LD40 – 438 mg/kg (rat, digestion)

2-butoxyethanol, CAS No. 111-76-2

Acute toxicity

LD50 – 470 mg/kg (rat, ingestion)

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

LC50 – 2 mg/l/4h (rat, inhalation)

b) caustic irritation

Prolonged exposure may cause skin dryness.

Sodium dodecylbenzenesulfonate, CAS No. 25155-30-0

Skin – rabbit – skin irritation – 24h

c) serious eye damage/ irritation

Mixture may cause mild eye irritation.

Sodium dodecylbenzenesulfonate, CAS No. 25155-30-0

Skin – rabbit – serious eye irritation – 24h

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

No data available regarding toxicity of the mixture.

i) specific target organ toxicity, repeated exposure

No data available regarding toxicity of the mixture.

j) hazards caused by inhalation

No data available regarding inhalation hazards of the mixture.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No data available regarding toxicity of the mixture.

Component toxicity

Sodium dodecylbenzenesulfonate, CAS No. 25155-30-0

Acute toxicity

Fish

Mortality NOEC - *Oncorhynchus kisutch* (Coho salmon) – 3.1 mg/l – 3d

Mortality LOEC - *Oncorhynchus kisutch* (Coho salmon) – 5.6 mg/l – 3d

Aquatic invertebrates:

Mortality LOEC – daphnia (*Daphnia magna*) – 4 mg/l – 7d

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.

12.3. Bioaccumulative potential

2-butoxyethanol, CAS No. 111-76-2

Log Pow 0.81 (25°C)

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Sodium dodecylbenzenesulfonate, CAS No. 25155-30-0

Bioaccumulation *Lepomis macrochirus* (Bluegill) – 28d – 64 µg/l

Bioaccumulation factor (BCF): 220

Log Pow 0.45

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 waste treatment company.

Waste code

070104 Other organic solvents, 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 code

070101 Aqueous washing liquids and mother liquors

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

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

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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, 2006) 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.

Regulations of the Cabinet of Ministers of the Republic of Latvia No. 782 (18 October, 2005) "Regulations on the Monitoring of the Compliance with the Essential Detergent Requirements".

15.2. Chemical risk assessment

No data on chemical risk assessment

16. OTHER INFORMATION

Developed on: 03.12.2012

Developed by: J. Brideau (905) 939-8750

Reviewed: on 13 June, 2014, 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.

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

R22 Harmful if swallowed.

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R37/38	Irritating to the respiratory system and skin.
R41	Risk of serious damage to eyes
R20/21/22	Harmful by inhalation, in contact with skin, if swallowed.
R36/38	Irritating to eyes and respiratory system.
Acute Tox. 4	Acute toxicity, Hazard Category 4
H302	Harmful if swallowed.
STOT SE 3	Specific target organ toxicity – single exposure, Hazard Category 3
H335	May cause respiratory irritation.
Skin Irrit. 2	Skin irritation, Hazard Category 2
H315	Irritates skin
Eye Dam 1	Serious eye damage, Hazard Category 1
H318	Causes serious eye damage
Acute Tox. 4	Acute toxicity, Hazard Category 4
H332	Harmful if inhaled
H312	Harmful in contact with skin
H302	Harmful if swallowed
Eye Irrit. 2	Eye irritation, Hazard category 2
H319	Causes serious eye irritation
Skin Irrit. 2	Skin irritation, Hazard Category 2
H315	Irritates skin

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