

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

1. MATERIAL / MIXTURE AND ORGANIZATION / COMPANY IDENTIFICATION

1.1. Product identification

KROWN MC27 TRIPLE KLEEN
KROWN MC27 TRIPLE KLEEN CLEANER

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

Detergent for pressure washing / universal 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.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, 110
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	Skin Corr. 1A; H314. Eye Dam. 1; H318. Acute Tox. 4; H332, H312, H302.
Environment	Not classified

2.2. Label elements

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

Hazards pictographs:



Signal word:

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

Dangerous

Hazard statements:

H302 Harmful, if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes severe eye damage.
H332 Harmful, if inhaled.

Precautionary statements:

General

P102 Keep away from children

Prevention

P264 Wash skin thoroughly after use.
P270 Do not eat, drink and smoke when using the product.
P271 Use only outdoors or in well-ventilated area.
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 large amount of water/soap.
P304+P340 IF INHALED: move person in fresh air and keep comfortable for breathing.
P305+P351 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
+P338

Storage

P403+P233 Keep in well ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with the local regulations.

Contents: 2-butoxyethanol, potassium hydroxide, disodium metasilicate

Special labelling in accordance with the requirements of 648/2004/EC and (EC) 907/2006:

Contains: <5% anionic surfactants

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 dodecylbenzene sulfonate	25155-30-0	246-680-4	No registration data	1-5%	Xn; R22 Xi; R37/38, R41

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
 Product code: MP27
 Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

					----- Acute Tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318
2-butoxyethanol	111-76-2	203-905-0	01- 2119475108- 36-XXXX	5-15%	Xn; R20/21/22 Xi; R36/38 ----- Acute Tox. 4; H332, H312, H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315
Potassium hydroxide, caustic potash	1310-58-3	215-181-3	01- 2119487136- 33-XXXX	1-5%	Xn; R22 C; R35 ----- Acute Tox. 4; H302 Skin Corr. 1A; H314
Disodium metasilicate	6834-92-0	229-912-9	01- 2119449811- 37-XXXX	1-5%	C; R34 Xi; R37 ----- Skin Corr. 1B; H314 STOT SE 3; H335

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 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. 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

Repeated exposure to this material may cause absorption through skin and cause serious health threat. Severe damage to health is possible after prolonged exposure via inhalation. Causes severe eye irritation. Causes skin irritation. May cause respiratory system irritation. The swallowing of even a small amount of this material may cause a serious health threat.

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

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 **VERSION 1.1**

5.1. Extinguishing media

General instructions

Non-flammable

Suitable extinguishing media

Use water spray, dry chemicals, carbon dioxide.

Non-suitable extinguishing media

Not indicated.

5.2. Special hazards arising from the substance or mixture

No special hazards arising from the substance or mixture indicated.

5.3. Advice for fire fighters

No advice for fire fighters indicated.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

No special precautions 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

Small leaks

Rinse with large amount of water.

Large leaks

Rinse storage container and neutralize with mildly acidic material before 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 using a concentrated product. Prevent inhalation of vapours or aerosols. Prevent eye and skin contact. Not to be taken internally. Prevent the concentrated product from drying on painted or glass surface.

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)

Detergent for pressure washing / universal cleaner / degreaser

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Exposure limit values

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
 Product code: MP27
 Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

Name of the component	8h 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				
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:

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)

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

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: Use protective goggles (EN166).

Hand protection: Use impervious protective gloves (EN374).

Body protection: Work clothing and rubber boots recommended (EN ISO 20345).

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

Thermal hazards: Not applicable.

Hygienic measures: Comply with the general protection and hygienic measures for working with chemical substances when handling the product. 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	Red liquid
b) odour	No data
c) odour threshold	Not specified
d) pH	12.8-13.8
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)	Data not available
k) vapour pressure (mm Hg)	17
l) vapour density (air=1)	0.6
m) relative density	1.041
n) solubility in 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.

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Data not available.

10.4. Conditions to avoid

Darkens aluminium, pewter, zinc. Stains anodized aluminium and glass, if left to dry.

10.5. Incompatible materials

Acidic materials.

10.6. Hazardous decomposition products

O₂, CO₂, H₂SO₄, acrid smoke

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological information

a) acute toxicity

No data regarding the toxic effect of the mixture.

Component toxicity

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 – 2mg/14h (rat, inhalation)

b) caustic irritation

Caustic – May cause skin irritation / redness. Contains potassium hydroxide.

c) serious eye damage/ irritation

Caustic – causes moderate irritation, lacrimation and sense of discomfort. May cause temporary or permanent damage, if not treated in timely manner.

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 the toxicity of the mixture.

i) specific target organ toxicity, repeated exposure

Inhalation of vapours or aerosols due to prolonged air contamination may cause damage to upper respiratory system. Chronic exposure may cause superficial skin tissue damage and dermatitis. Chronic exposure of eye mucosa may cause permanent eye tissue damage and even blindness. Target organs: liver, kidneys, lymphatic system, skin, blood circulation, eyes and respiratory system. Extensive exposure to this product may aggravate long-term conditions of these systems.

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 **VERSION 1.1**

j) hazards caused by inhalation

Inhalation of vapour may damage throat, upper respiratory system and other mucosa.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No data available regarding toxicity of the mixture.

Component toxicity

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 active surfactants in this mixture comply with the biodegradability requirements set out by the Regulation (EC) No. 648/2004 on detergents. Data certifying this assumption are kept for presentation to competent member state institutions and are available upon direct request or upon a 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

Mixture is water soluble and easily travels 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 concentrated material from leaking 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

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

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

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

Land transportation	UN 1814
Marine transportation	UN 1814
Air transportation	UN 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(-es)

ADR/RID/ADN	8
IMDG	8
ICAO, IATA class/division	8
Hazard label	



14.4. Packaging group

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

14.5. Environmental hazards

Marine pollutant	No.
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14.6. Special precautions for user

EmS	F-A, S-B
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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

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 **VERSION 1.1**

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 on detergents.

15.2. Chemical risk assessment

No data on chemical risk assessment

16. OTHER INFORMATION

Developed on: 17.02.2012

Developed by: J. Brideau (800) 267-5744

Reviewed: on 26 December, 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.

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

C;R35. Xn; R20/21/22. Xi; R36/38.

Labelling in accordance with 1999/45/EC

Hazard labels

C



Caustic

Risk phrases

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R35 Causes severe burns
R36/38 Irritates eyes and skin.

Safety phrases

S2 Keep away from children.
S24/25 Prevent contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 in case of contact with skin, rinse immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye or face protection.

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

S46 If swallowed, immediately seek medical attention and show this container or label.

Contents: 2-butoxyethanol, potassium hydroxide, disodium metasilicate

Special labelling in accordance with the requirements of 648/2004/EC and (EC) 907/2006:

Contains: <5% anionic surfactants

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

R22 Harmful, if swallowed.
R37/38 Irritates respiratory system and skin.
R41 Risk of serious damage to eyes.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/38 Irritates eyes and skin.
R35 Causes severe burns.
R34 Causes burns.
R37 Irritates respiratory system.

Acute Tox. 4 Acute toxicity, Hazard Category 4
H302 Harmful if swallowed.
STOT SE 3 Toxic effect on target organ – single exposure, Hazard Category 3
H335 May cause respiratory irritation.
Skin Irrit. 2 Skin irritation, Hazard Category 2
H315 Irritates skin
Eye Dam. 1 Severe eye damage, Hazard Category 1

H318 Causes serious eye damage,
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
Eye Irrit. 2 Eye irritation, Hazard Category 2
H319 Causes serious eye irritation.
Skin Corr. 1A Caustic to skin, Hazard Category 1A
H314 Causes severe skin burns and eye damage.
STOT SE 3 Toxic effect on target organ – single exposure, Hazard Category 3
H335 May cause respiratory irritation.

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

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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

SAFETY DATA SHEET

(KROWN) **MP27 TRIPLE KLEEN**
Product code: MP27
Issued on: 17.02.2012
REVISED: 26.12.2014 VERSION 1.1

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