

SAFETY DATA SHEET

(KROWN) **MO70 BIO BAC**
Product code: M070
Issued on: 17.02.2012
Revised: 12.01.2015 Version 1.1

1. MATERIAL / MIXTURE AND ORGANIZATION / COMPANY IDENTIFICATION

1.1. Product identification

KROWN MO70 BIO BAC
KROWN MO70 BIO BAC oil cleaning agent

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

Microorganism based oil 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, Rīga, 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 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:
No

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Hazard statements:

No

Precautionary statements:

P102 Keep away from children
P301+P312 IF SWALLOWED, contact POISON CENTRE / doctor /, if you feel unwell.

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
Patented contents, that include living micro organisms	No data	No data	No data about registration	-	Not classified

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move person in fresh air.

Eye contact

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 induce vomiting, if not prescribed by doctor. 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

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

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

Product is non-flammable

Extinguishing media

Water spray, carbon dioxide, dry chemical powder.

5.2. Special hazards arising from the substance or mixture

No other relevant information available.

5.3. Advice for firefighters

When extinguishing indoor fires or any significant outdoor fires, use suitable personal protective equipment and respiratory protection with autonomous air supply. In case of small outdoor fires that can easily be extinguished by portable fire extinguished, the use of respiratory protection with autonomous air supply is not obligatory.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Emergency personnel in the contaminated areas must use suitable personal protective equipment and certified autonomous respirators. Use goggles and impervious gloves.

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 spills

Mop up and rinse with water

Large spills

Collect as much liquid, as possible. Mop up or absorb the residue and transfer the absorbing material for disposal in accordance with the state and municipal regulations.

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 prolonged or repeated skin and eye contact. Wash hands thoroughly with water and soap after handling the product. Not to be taken internally.

7.2. Conditions for safe storage, including any incompatibilities

Prevent freezing. Keep in cool, well ventilated area.

7.3. Specific end use(s)

Microorganism-based oil cleaner

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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8.1.1. Exposure limit values

There are no exposure limit values indicated for the product or its components.

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

There are no DNEL or PNEC values indicated for the product or its components.

8.2. Exposure controls

8.2.1. Adequate technical management

General instructions: 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: Use protective goggles (EN166).

Hand protection: Use impervious protective gloves (EN374).

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.

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

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) appearance	Opaque liquid
b) odour	Light odour
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)	Not flammable
j) upper/ lower flammability or explosive limit	Not applicable
h) evaporation rate (water =1)	Not specified
k) vapour pressure (mm Hg)	Not specified
l) vapour density (air=1)	Data not available
m) relative density	1.001
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

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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

Strong acids and oxidisers may render the product ineffective.

10.5. Incompatible materials

Strong acids and oxidisers.

10.6. Hazardous decomposition products

Carbon and nitric oxides.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological information

a) acute toxicity

No data available regarding toxicity of the mixture.

b) caustic irritation

No data available regarding the effects of the mixture on skin.

c) serious eye damage/ irritation

No data available regarding the effects of the mixture on eyes.

d) respiratory or skin sensitization

See item i).

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

Eyes: May cause eye irritation.

Skin: Prolonged or repeated exposure may cause irritation. Although the product contains non-pathogenous organisms, infection is possible, if the product comes into contact with open wounds. These infections can be treated with antibiotics.

Swallowing: May cause mouth, throat and digestive tract irritation.

i) specific target organ toxicity, repeated exposure

May cause skin sensitivity or dermatitis in case of prolonged or repeated exposure.

j) hazards caused by inhalation

No data available regarding inhalation hazards of the mixture.

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12. ECOLOGICAL INFORMATION

12.1. Toxicity

No data available regarding toxicity of the mixture.

12.2. Persistence and degradability

No data available regarding the degradability of the mixture.

12.3. Bioaccumulative potential

No data available regarding the bioaccumulative potential of the mixture.

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

No instructions.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residue and wastes

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

Container and packaging waste

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 Not classified

IMDG Not classified

ICAO/IATA class/ section Not classified

Hazard label Not classified

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14.4. Packaging group

ADR/RID/ADN packaging group	Not classified
IMDG packaging group	Not classified
ICAO/IATA packaging group	Not classified

14.5. Environmental hazards

Marine pollutant No

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.

Labelling in accordance to 1999/45/EC

Hazard labels

No.

Safety phrases

S2 Keep away from children.

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

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 12 January, 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.

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 bear 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