

SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH) and regulation 1272/2008/EC



Trade name: Brigeziol 2000

Version: 9 Date of issue: 2004.

Latest revision: 09. 05. 2017 Oldal: 1/(12)

Section 1 Identification of the mixture/substance and of the company/undertaking

1.1 Product identifier:
Brigeziol 2000

1.2 Relevant identified uses of the mixture or substance and uses advised against
Relevant identified uses: Washing undercarriages, engines, parts, cleaning agricultural machines, tank-wagons and containers. In machine industry removal scrapings, cuttings, broken fragments from finished metal. Suitable to cleaning equipment, when the aim is removal of oily-greasy-muddy sludge and sediment, together or separately. Favourably applicable for degreasing plates treated with temporary preservative oil, before processing.
Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

Data of manufacturer and supplier:

Kemobil Kft
H-2890 Tata, Agostyáni út 81.
Phone: +3634 382-655
Fax: +36 34 382-417
E-mail: info@kemobil.hu

Responsible for SDS:

Kemobil Kft
H-2890 Tata, Agostyáni út 81.
Phone: +36 34 382-655
Fax: +36 34 382-417
E-mail: info@kemobil.hu

1.4 Emergency telephone number
Emergency telephone (07-15 h): +36 34 382-655 on workdays
Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.)
Tel.: +36 80 201 199
National Health Toxicological Information Service:

Section 2 Hazards identification

2.1 Classification of the mixture or substance

Hazard Class and Category:	Hazard statement:
Eye Dam. 1	H318 Causes serious eye damage.

2.2 Label elements

Product identification: Trade name: **Brigeziol 2000**

Hazardous components:	Alcohol ethoxylate C9-11; Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride
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GHS Pictogram:



Signal word:

Danger

Hazard statement:

H318 Causes serious eye damage.

Supplemental hazard information: -

Precautionary statements - General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements – Prevention:

P280 Wear eye protection/face protection.

Precautionary statements – Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Precautionary statements – Storage: -

Precautionary statements - Disposal

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: not required.

Transport classification: see section 14.

By regulation No 648/2004/EC on detergents:

Ingredients: less than 5 % cationic surfactants, non-ionic surfactants, phosphates, phosphonates.

Contain: antifoaming

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2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

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Section 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixtures of the following substances and non-hazardous substances.

Component(s) / Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Alcohol ethoxylate C9-11	-	68439-46-3	Eye Dam. 1	H318	max. 5.0
Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride	-	863679-20-3	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1	H302 H315 H318	max. 2.5
Tetrapotassium pyrophosphate	230-785-7	7320-34-5	Eye Irrit. 2	H319	max. 5.0

The full text of each relevant H- phrase, Hazard classes and cat. see in Section 16.

Section 4 First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove exposed person to fresh air and keep at rest. Seek physician if feeling unwell.

Skin contact: Remove contaminated clothing. Wash with plenty of water. If irritation persists, obtain medical attention.

Eye contact: Flush immediately with plenty of running water, holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Get medical attention.

Ingestion: DO NOT induce vomiting. Rinse mouth immediately and then drink plenty of water. Get medical attention immediately. Show the MSDS or label.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

If contact with eyes: irritation, pain, burning feeling

Repeated or continuous exposure may cause skin dryness or cracking.

If swallowed: may cause gastrointestinal complaints.

In case of inhalation: respiratory irritation with cough, chest pain and difficulty in breathing.

4.3 Indication of any immediate medical attention and special treatment need

Ingestion, contact with eyes: immediate medical attention is required.

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Section 5 Fire-fighting measures

Fire hazards:

Not flammable.

5.1 Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

No data. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the mixture or substance

Hazardous combustion products: the product is not flammable.

At high temperature: carbon monoxide, carbon dioxide, phosphorus oxides, nitrogen oxides, and other toxic gases can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Self-contained breathing apparatus.

Further information:

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Danger of slipping on leaked out/spilled product.

Avoid contact with skin, eyes.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil.

Notify relevant authority.

6.3 Methods and material for containment and cleaning up

On soil: Recover free liquid by pumping. Contain the rest or small quantities with sand, earth or other suitable absorbents. Dispose of according to local regulations.

Clean up with large amount of water the contaminated area.

On water: Notify local authorities according to regulations.

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

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Section 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with chemicals.
Avoid contact with skin and eyes. Avoid inhalation of aerosol in case of spray application.
Take off contaminated clothing and wash before reuse.
Ensure washing facilities after working hours and before breaks.
When using do not eat, drink or smoke.
Handling temperature: Protect from frost.

7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of chemicals.
Store in dry, cool place in original closed containers.
Protect from heat and direct sunshine.
Keep away from food, drink, feeding stuffs.
Storage temperature: 0-30°C. Protect from frost.

7.3 Specific end use(s)

Relevant identified uses: Washing undercarriages, engines, parts, cleaning agricultural machines, tank-wagons and containers. In machine industry removal scrapings, cuttings, broken fragments from finished metal. Suitable to cleaning equipment when the aim is removal of oily-greasy-muddy sludge and sediment, together or separately. Favourably applicable for degreasing plates treated with temporary preservative oil, before processing.

Section 8 Exposure controls / personal protection

Engineering control measures:
Adequate ventilation.

8.1 Control parameters:

In EU (2000/39/EC): -

8.2 Exposure controls

Personal protection:

Respiratory protection:	Under normal conditions not required.
Hand protection:	Protective gloves for sensitive persons. Suitable material: Super latex (EN 374-1). Note: Manufacturer's directions for use and the conditions of application should be observed.
Eye protection:	Safety glasses with side-shields (EN 166).
Skin protection:	Protective clothing in case of longer periods of work.
Other special:	No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

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Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state:	liquid
Colour (ASTM D 1500):	colourless or light yellow
Odour:	characteristic

Change in physical state:

Freezing point (DIN/ISO 3016):	-1 - +2°C
Boiling point:	ca. 100°C

Others:

Flash point:	not applicable
Ignition point:	not applicable
Auto ignition:	not self-igniting
Explosion limits: lower/upper:	not explosive
Decomposition temperature:	unknown
Oxidizing properties:	no data
Vapour pressure at 20°C:	no data
Density at 20°C:	1.00-1.10 g/cm ³
Solubility in water at 20°C:	miscible in all proportion
n-Octanol/water partition coefficient:	no data
pH at 20°C:	min. 10.5
Dynamic viscosity at 40°C	no data

9.2 Other information

no data available

Section 10 Stability and reactivity

10.1 Reactivity:	Dangerous reactivity not known.
10.2 Chemical stability:	No decomposition if stored and handled properly.
10.3 Possibility of hazardous reactions:	Not known.
10.4 Conditions to avoid:	Direct sunshine, heat, frost.
10.5 Incompatible materials:	Unknown.
10.6 Hazardous decomposition products:	No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

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Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data for the product.

Components:

Mixture of Alcohol ethoxylate C9-11 and Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride:

Oral: LD50 (rat) 2381 mg/kg (calculated method)

Alcohol ethoxylate C9-11:

Oral: LD50 (rat) > 5000 mg/kg

Dermal: LD50 (rat) > 2000 mg/kg

Repeated exposure

NOEL 250 mg/kg

Repeated exposure target organ toxicity

NOEL 250 mg/kg

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride:

Oral: LD50 (rat) > 300 - 2000 mg/kg

In vitro genotoxicity: Ames test negative

Tetrapotassium pyrophosphate:

Oral: LD50 (mouse) > 2000 mg/kg

Acute toxicity: irritation

Skin contact: not irritant (based on components)

Eye contact: causes serious eye damage (based on components)

Respiratory or skin sensitisation: not sensitising (based on components)

Other information, specific effects:

Germ cell mutagenicity: not known, resp. not mutagen (based on components)

Carcinogenicity: not known, resp. not carcinogen (based on components)

Reproductive toxicity: not known, resp. no reproduction-damaging effect (based on components)

STOT-single exposure: not classified

STOT-repeated exposure: not classified

Aspiration hazard: not classified

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Section 12 Ecological information

12.1 Toxicity No data available for the preparation.

Components:

Alcohol ethoxylate C9-11:

Aquatic organisms:

Fish:	LC50	> 1-10	mg/l/96 h
Daphnia magna:	EC50	>1-10	mg/l/48 h (based on data of similar products)
Algae:	EC50	>1-10	mg/l/72 h (based on data of similar products)

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride:

Aquatic organisms:

Fish:	LC50	>10-100	mg/l/96 h
Daphnia magna:	EC50	>1-10	mg/l/48 h
Algae:	EC50	>1-10	mg/l/72 h

Tetrapotassium pyrophosphate:

Aquatic organisms:

Fish (Golden orfe):	LC0	750	mg/l
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12.2 Persistence and degradability

Biodegradability: Biodegradability of surfactants comply with the criteria of regulation 648/2004/EG.

Alcohol ethoxylate C9-11: > 60 % BOD (28 day) closed bottle test (OECD 301D)

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride:
> 60 % BOD (28 day) closed bottle test (OECD 301D)

12.3 Bioaccumulative potential Unknown.

Alcohol ethoxylate C9-11: Not likely.

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride: Not likely.

12.4 Mobility

Mobility in soil: No data.

Mobility in water: Miscible with water.

12.5 Results of PBT and vPvB assessment Does not contain PBT and vPvB substances.

12.6 Other adverse effects Large spills may be hazardous to the environment. Do not discharge into drains, surface waters, groundwater.

Water hazard class (German): -

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Section 13 Disposal considerations

13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 20 01 29*

Detergents containing dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: no data

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Cod: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: Empty containers can be reused after cleaning with water.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

Section 14 Transport information

14.1. UN number:	Not classified.
14.2. UN proper shipping name:	Not classified.
14.3. Transport hazard class(es):	Not classified.
14.4. Packing group:	Not classified.
14.5. Environmental hazards:	Not classified.
14.6. Special precautions for user:	Not classified.

Section 15 Regulatory information

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

This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2015/830/EU) and to Regulation (EC) 1272/2008.

15.2 Chemical safety assessment. not available

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Section 16 Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Source of data presented in this material safety data sheet:

Test results of this product

Hungarian lists of dangerous substances, 1272/2008/EC regulation, Annex XVII. of REACH

Relevant Hungarian and EU regulation

Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP)

Eye Dam. 1 H318 calculated

The full text of each relevant Hazard classes and cat., H- phrase in Section 3.:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Acute Tox. 4 Acute toxicity Category 4

Skin Irrit. 2 Skin corrosion/irritation Category 2

Eye Dam. 1 Serious eye damage/eye irritation Category 1

Eye Irrit. 2 Serious eye damage/eye irritation Category 2

Legend:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate

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BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ec _x	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Ed _x	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
ESIS	European Chemical Substances Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC _x	Lethal Concentration x%
LD _x	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts/million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative

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Revision Indicators:

Section	Subject of change	Date	Version
1-16	Regulatory information, other corrections Revision modification according to 453/2010/EC	18.10.2012	3
2 11	Hazards identification Toxicological information	26.11.2012	4
16	Other corrections	16.01.2014	5
2, 11, 16	Revision modification according to 453/2010/EC II. compliance with Annex	29.07.2014	6
1-16	Complete revision, according to 1272/2008/EC and 2015/830/EC	01.06.2015	7
1	Changes of manufacturer's name	04.10.2016	8
2.2	Label elements	09.05.2017	9