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

Trade name: Brigeciol D-3

Version: 11 Date of issue: 1999

Latest revision: 13. 03. 2023 Oldal: 1/(13)

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

1.1 Product identifier: Brigeciol D-3 UFI: K5EK-YEQX-212K-E0R3

- 1.2 Relevant identified uses of the substance or mixture 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: +36 70 938-3910 Fax: +36 34 382-417 E-mail: info@kemobil.hu Responsible for SDS: Kemobil Kft H-2890 Tata, Agostyáni út 81. Phone: +36 70 938-3910 Fax: +36 34 382-417 E-mail: info@kemobil.hu

1.4 Emergency telephone number Emergency telephone (07-15 h): +36 70 938-3910 on workdays Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián st. 2-6.) Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).
+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad) National Health Toxicological Information Service:

Section 2 Hazards identification

2.1	Classification of the substance or mixture		
	Hazard Class and Category:	Hazard	l statement:
	Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
	Eye Dam. 1	H318	Causes serious eye damage.
2.2	Label elements		
	Product identification: Trade na	ame: Br	rigeciol D-3



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Hazardous components: Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine; Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics GHS Pictogram: Signal word: Danger Hazard statement: H304 May be fatal if swallowed and enters airways. Causes serious eye damage. H318 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: Use only outdoors or in a well-ventilated area. P271 P273 Avoid release to the environment. P280 Wear eye protection/face protection. Precautionary statements – Response: **P301 + P310 +** IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do P331 NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove P305 + P351 +contact lenses, if present and easy to do. Continue rinsing. Immediately P338 + P310call a POISON CENTER or doctor. Precautionary statements - Storage: Store locked up. P405 Precautionary statements – Disposal: Dispose of contents/container in accordance with national regulation. P501 Other liabilities for labelling: Tactile warning and child-resistant fastening: Distribution for population. Transport classification: see section 14. By regulation No 648/2004/EC on detergents: Ingredients: aliphatic hydrocarbons > 30%, anionic surfactants, non-ionic surfactants < 5%www.kemobil.hu 2.3 Other hazards Forming explosion hazardous vapour/air mixture is possible. The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006, at a concentration of 0.1% or more. The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

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

Trade name: Brigeciol D-3

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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)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics RECH Registr. Nr.: 01-2119457273-39	918-481-9	-	Asp. Tox. 1 Note J	H304	80 - 95
Alcohols, C13-15, branched and linear, ethoxylated RECH Registr. Nr.: 02-2119548515-35	-	157627-86-6	Eye Irrit. 2 Aquatic Acute 1 Aquatic Chronic 3	H319 H400 (M=1) H412	1.0 - 10
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine RECH Registr. Nr.: no data	287-335-8	85480-55-3	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 3	H302 H315 H318 H412	1.0 - <10

Note J:

The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes

The full text of each relevant Hazard classes and cat., H- phrase 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
Inholotion	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 and soap.
	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. If irritation persists obtain medical
	attention.



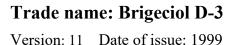
according to regulation 1907/2006/EC (REACH) and regulation 1272/2008/EC

Trade name: Brigeciol D-3



Ve	rsion: 11	Date of issue:	1999	Latest revision: 13. 03. 2023	Oldal: 4/(13)
	Ingestion	n:	attention immediately. In case of spontaneous Place the unconscious	niting. Rinse mouth immediatel Show the MSDS or label. s vomiting, the head should be tu s patient in recovery position. xygen. If breathing is stopped,	Irn down. If breathing is
	Protectio	on of first-aid p	erson: No individual sp	ecifications.	
4.2	If cor May Other Inhala	htact with eyes: be fatal if swall symptoms: cou	owed and enters airway 1gh, abdominal pain, na	g feeling. Serious eye damage is ys.	-
4.3		•		and special treatment needed us observation in the first 48 hor	urs.
Sect	ion 5	Fire-fighting 1	neasures		
	Fire haza Comb	ards: pustible.			
5.1	Suitable	ishing media extinguishing 1 dry chemical,	nedia: water spray, CO ₂ .		
		ole extinguishin water jet.	g media:		
5.2	Hazardo At hi	us combustion gh temperature	E	rbon dioxide, sulphur oxides, ni	trogen oxides,
5.3	Special j	for fire-fighters protective equip rding to the exis		lations. Self-contained breathing	apparatus.
	Form In cas Vapo of igr Colle Conta	se of fire, keep ours may accum nition and flash ct contaminated	back. I fire fighting water sep	-	wage system.

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



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Section 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions: see Section 8.
 All kind of ignition sources should be removed. Do not smoke.
 Danger of slipping on leaked out/spilled product.
 Avoid contact with skin, eyes. Avoid breathing of vapours.
- 6.2 Environmental precautions: Confine spills to prevent material from entering sewers, watercourses, drains and into soil. All kind of ignition sources should be remove. Notify relevant authority.
- 6.3 Methods and material for containment and cleaning up
 - On soil: All kind of ignition sources should be remove. 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.

Section 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammability liquids.

All kind of ignition sources should be removed. Do not smoke.

Avoid to accumulate electrostatic charge.

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: room temperature

7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of chemicals and flammability liquids.

Store in dry, cool place in original closed containers. Protect from heat and direct sunshine. Do not store together with oxidizing agents.

Keep away from food, drink, feeding stuffs.

Storage temperature: room temperature



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



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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

- 8.1 Control parameters: -
- 8.2 Exposure controls

Engineering control measures: Adequate ventilation (general or local exhaust).

Personal protection:

(a) Eye/face protection(b) Skin protection	Tightly fitting safety goggles (EN 166).
(i) Hand protection	Protective gloves, solvent resistant (EN 374-1). Suitable material: Short time: Chloropren, nitril (performance
	levels-3); long time: nitril, PVA (performance levels-6)
	Note: Manufacturer's directions for use and the conditions of application should be observed.
(ii) Other	Protective clothing, oil resistant (EN ISO 20346, 13832).
(c) Respiratory protection	Under normal use conditions, respirator is not usually required. Use disposable dust/mist mask if formation of vapour, with filter "A" (EN 140).
(d) Thermal hazards	No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Physical state:	liquid
b)	Colour:	mildly yellowish
c)	Odour:	characteristic
d)	Melting point/freezing point:	not available
e)	Boiling point or initial boiling point and boiling range:	~180 - 260°C

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

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combustible

> 61°C > 230°C

not available

not available

not available

not available

not available

not available

 $0.75 - 0.85 \text{ g/cm}^3$

 $\begin{array}{l} 7.0-8.0 \\ <\!20.5 \ mm^2\!/s \end{array}$

0.6 V/V% / 6.5 V/V% Product is not explosive.

However, formation of explosive air/steam mixtures is possible.

forms an emulsion with water

- f) Flammability:
- g) Lower and upper explosion limit:
- h) Flash point (COC) (EN ISO 2592):
- i) Auto-ignition temperature:
- j) Decomposition temperature:
- k) pH at 20°C:
- l) Kinematic viscosity:m) Solubility Solubility in water:
 - Solubility in other solvents:
- n) Partition coefficient n-octanol/water (log value):
- o) Vapour pressure:
- p) Density and/or relative density:
- q) Relative vapour density:
- r) Particle characteristics:
- 9.2 Other information

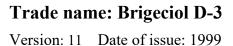
Not available.

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, electrostatic charge.
10.5 Incompatible materials:	Strong oxidizing agents, chromates.
10.6 Hazardous decomposition products:	No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.



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



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Section 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

Components:					
<i>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EC: 918-481-9)</i>					
Oral:	LD_{50} (rat)	5000 mg/kg			
Dermal:	LD50 (rabbit)	3160 mg/kg			
Oral	ATE	5000 mg/kg			
Dermal	ATE	3160 mg/kg			

Alcohols, C13-15, branched and linear, ethoxylated (CAS: 157627-86-6) Oral: LD₅₀ (rat) > 2000 mg/kg

Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	May be fatal if swallowed and enters airways.

11.2 Information on other hazards

The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

Section 12 Ecological information

12.1	Toxicity	No data available for the preparation.				
	Components: Alcohols, C13-15, branched and linear, ethoxylated (CAS: 157627-86-6)					
	Fish (Brachydanio rerio):	LC_{50}	1 - 10 mg/L 9	6 h		
	Aquatic invertebrates:	EC50	0.1 - 1.0 mg/L 4	8 h		
	Algae (Scenedesmus subspicatus):	EC50	0.1 - 1.0 mg/L 7	2 h (rate of growth)		
	Bacterie (Pseudomonas putida):	EC_{10}	>10 0000 mg/L 1	6 h		
	<i>Hydrocarbons, C10-C13, n-alkanes, iso</i> Other aquatic organisms:	oalkanes, LC ₅₀	cyclics, < 2% aromatics (1 10 - 100 mg/L	EC: 918-481-9)		



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

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12.2	Persistence and degradability Biodegradability: <i>Alcohols, C13-15, branched and linear,</i>	Biodegradability of surfactants comply with the criteria of regulation 648/2004/EG.
	ethoxylated (CAS: 157627-86-6)	90-100 % (OECD 301A), easy biodegradable
12.3	Bioaccumulative potential <i>Hydrocarbons, C10-C13, n-alkanes,</i>	No data is available
	isoalkanes, cyclics, < 2% aromatics (EC: 918-481-9) Alcohols, C13-15, branched and linear,	Log Pow: 2.1-6.0 (literature data) Log Kow: 5.5-6.0 (literature data)
	ethoxylated (CAS: 157627-86-6)	Bioaccumulation is not expected.
12.4	Mobility in soil: Mobility in water:	No data. When mixed with water to form an emulsion.
12.5	Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances, at a concentration of 0.1% or more.
12.6	Endocrine disrupting properties	The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.
12.7	Other adverse effects	Do not discharge into drains, surface waters, groundwater. Spills may form a film on water surfaces causing impaired oxygen transfer. Hazardous to drinking water, on escape of even small quantities.
	Water hazard class (German):	WGK 2 (Classification by AwSV)
-		

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: 13 08 99*
Wastes not otherwise specified.
Waste Identification Code: 13 08 02*
Other emulsions.
Notes: classification of product waste is also dependent on the conditions of application.
Recommended waste treatment method: Disposal of great amount of waste: by a suitably qualified or licensed contractor.

Disposal must be in compliance with national and local regulations.

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



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Packaging disposal:

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

Waste Identification Code: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

Empty containers can be reused after cleaning with water. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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

	Land transport:		
	Road/ Railway	ADR/RID:	
14.1.	UN number or ID 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 substance or mixture This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008. Seveso category: not classified.

15.2 Chemical safety assessment. not available

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



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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.

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

Asp. Tox. 1	H304	based on viscosity
Eye Dam. 1	H318	calculated

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

H302 H304 H315 H318 H319 H400		Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Very toxic to aquatic life.
H412		Harmful to aquatic life with long lasting effects.
-	Tox. 1 rit. 2 am. 1	Acute toxicity Category 4 Aspiration hazard Category 1 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Serious eye damage/eye irritation Category 2 Hazardous to the aquatic environment, Acute Category 1 Hazardous to the aquatic environment, Chronic Category 3
Legend	d:	
ADN		pean Agreement concerning the International Carriage of Dangerous Goods by Inland erways
ADR	Euro	pean Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acut	te Toxicity Estimate
BCF		oncentration Factor
BOD		ogical Oxygen Demand
Bw	Body	y Weight

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

7 Trade

on: 13. 03. 2023 Oldal: 12/(13)

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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				
DMEI		Derived Minimal Effect Level				
DNEL		Derived No Effect Level				
ECHA	— ····································					
Ecx	Effective Concentration x%					
ErC50	e					
Edx	Effective Dose x%					
EC	European Community					
EC nu	mber European Community number					
ELINO	CS European List of Notified Chemical Substances					
ES	Exposure Scenario					
IARC	International Agency for Research on Cancer					
IATA	International Air Transport Association					
IMDG	International Maritime Dangerous Goods					
LCx	Lethal Concentration x%					
LDx	Lethal Dose x%					
LOAE	C Lowest Observed Adverse Effect Concentration					
LOAE	L Lowest Observed Adverse Effect Level					
LOEC						
LOEL	Lowest Observed Effect Level					
NOEC						
NOEL						
NLP	No-Longer Polymer					
NOAE						
OECE		ent				
PBT	Persistent Bioaccumulative and Toxic					
PNEC	Predicted No-Effect Concentration					
	parts/million					
ppm REAC	1	of Chemicals				
RID	Regulations concerning the International carriage of Da		1			
SVHC		ligerous Goods by Ka	11			
		reaction products or	biological			
UVCE	substance of unknown or variable composition, comple materials	reaction products or	biological			
VOC						
	VOC Volatile organic compounds					
VPVB	vPvB Very Persistent and very Bio-accumulative					
Revision Indicators:						
Section	Subject of change	Date	Version			
1-16			3			
110		01. 12. 2012	5			



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Revision Indicators:				
Section	Subject of change	Date	Version	
16	Other corrections	16.01.2014	4	
2, 11, 16	Revision modification according to 453/2010/EC II. compliance with Annex	29. 07. 2014	5	
2, 3, 16	Regulatory information, other corrections Revision modification according to 2015/830/EC	01. 06. 2015	6	
1-16	Complete revision, according to 1272/2008/EC and 2015/830/EC	15. 10. 2015	7	
3	Composition/information on ingredients			
1	Changes of manufacturer's name	04. 10. 2016	8	
2.2	Label elements	17. 10. 2017	9	
3	Composition/information on ingredients			
1-16	Revision modification according to 2020/878/EU	10. 02. 2022	10	
2.2	Label elements	13. 03. 2023	11	
2.3, 11.2,	Other corrections			
12.6				

