

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **Fuel Conditioner**

Article number: 87800

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.  
No further relevant information available

Application of the substance / the mixture

Additive

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg

Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

Further information obtainable from:

Laboratory

### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.  
+44 (171) 635 91 91  
National Poison Inform. Centre  
Medical Toxicology Unit  
Avalonley Road  
London SE14 5ER

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS05 GHS09

Signal word

Danger

Hazard-determining components of labelling:

Coconut Diethanolamide  
Alcohols, C9-11, branched and linear, ethoxylated

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- Hazard statements H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read label before use.
  - P264 Wash thoroughly after handling.
  - P273 Avoid release to the environment.
  - P280 Wear protective gloves / eye protection / face protection.
  - P302+P352 IF ON SKIN: Wash with plenty of water.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER/doctor.
  - P321 Specific treatment (see on this label).
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P332+P313 If skin irritation occurs: Get medical advice/attention.
  - P391 Collect spillage.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures**

- Description: Mixture: consisting of the following components.

**· Dangerous components:**

CAS: 68155-07-7 EC number: 931-329-6 Reg.nr.: 01-2119490100-53-xxxx	Coconut Diethanolamide   	50-100%
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60-xxxx	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	12.5-25%
CAS: 160901-09-7 NLP: 500-446-9	Alcohols, C9-11, branched and linear, ethoxylated 	12.5-25%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****· 4.1 Description of first aid measures**

- After inhalation: Supply fresh air; consult doctor in case of complaints.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.  
Rinse out mouth and then drink plenty of water.

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- **4.2 Most important symptoms and effects, both acute and delayed**
- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

#### · 5.3 Advice for firefighters

- Protective equipment:

Do not inhale explosion gases or combustion gases.  
Mount respiratory protective device.

### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation

#### · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

#### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

- Information about fire - and explosion protection:

No special measures required.

#### · 7.2 Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles:

Store in a cool location.  
Store only in the original receptacle.

- Information about storage in one common storage facility:

Store away from foodstuffs.

- Further information about storage conditions:

Protect from frost.  
Store in cool, dry conditions in well sealed receptacles.

- Storage class:

10

#### · 7.3 Specific end use(s)

No further relevant information available.

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**SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see item 7.

**8.1 Control parameters**

- Ingredients with limit values that require monitoring at the workplace:

**34590-94-8 Dipropylene glycol monomethyl ether**

WEL	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm
Sk	

**DNELs****68155-07-7 Coconut Diethanolamide**

Oral	DNEL (Langzeit-wiederholt)	6.25 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	4.16 mg/kg bw/day (ARB) 2.5 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	73.4 mg/m <sup>3</sup> Air (ARB) 21.73 mg/m <sup>3</sup> Air (BEV)

**34590-94-8 Dipropylene glycol monomethyl ether**

Oral	DNEL (Langzeit-wiederholt)	1.67 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	65 mg/kg bw/day (ARB) 15 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	310 mg/m <sup>3</sup> Air (ARB) 37.2 mg/m <sup>3</sup> Air (BEV)

**PNECs****68155-07-7 Coconut Diethanolamide**

PNEC (wässrig)	830 mg/l (KA) 0.0007 mg/l (MW) 0.007 mg/l (SW)
PNEC (fest)	0.0348 mg/kg Trockengew (BO) 0.0195 mg/kg Trockengew (MWS) 0.195 mg/kg Trockengew (SWS)

**34590-94-8 Dipropylene glycol monomethyl ether**

PNEC (wässrig)	4,168 mg/l (KA) 1.9 mg/l (MW) 19 mg/l (SW)
PNEC (fest)	2.74 mg/kg Trockengew (BO) 7.02 mg/kg Trockengew (MWS) 70.2 mg/kg Trockengew (SWS)

- Additional information: The lists valid during the making were used as basis.

**8.2 Exposure controls**

- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.

- Respiratory protection:

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· Protection of hands:



**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

PVC or PE gloves

Rubber gloves

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

· As protection from splashes gloves made of the following materials are suitable:

Butoject (KCL, Art\_No. 897, 898)

Butyl rubber, BR

· Not suitable are gloves made of the following materials:

Strong material gloves

· Eye protection:



**Tightly sealed goggles**

· Body protection:

Protective work clothing

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:

Fluid

Colour:

Blue

· Odour:

Weak, characteristic

· Odour threshold:

Not determined.

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· pH-value at 20 °C:	9
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	0.97 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	15.0 %
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Poisonous gases/vapours

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

**68155-07-7 Coconut Diethanolamide**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	2,001 mg/kg (rat)

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**34590-94-8 Dipropylene glycol monomethyl ether**

Oral	LD50	5,180 mg/kg (rat)
	NOAEL	5,000 mg/kg (rat)
Dermal	LD50	>19,000 mg/kg (rabbit)
	NOEL	9,500 mg/kg (rat)
Inhalative	LC50/4 h	>50 mg/l (rat)

**160901-09-7 Alcohols, C9-11, branched and linear, ethoxylated**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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 Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****• 12.1 Toxicity**

- Aquatic toxicity:

**68155-07-7 Coconut Diethanolamide**

IC50/72h	3.9 mg/l (green alge)
ErC50/72h	3.2 mg/l (daphnia magna)
NOEC/21d	0.07 mg/l (daphnia magna)
LC50/96h	2.4 mg/l (piscis)

**34590-94-8 Dipropylene glycol monomethyl ether**

EC50/48h	1,919 mg/l (daphnia magna)
EC50/48h	1,919 mg/l (daphnia magna)
EC50/72h	>969 mg/l (green alge)
LC50/96h	>1,000 mg/l (piscis)
	>10,000 mg/l (Pimephales promelas)
LC50/72h	>150 mg/l (piscis)

**• 12.2 Persistence and degradability**

No further relevant information available.

**• 12.3 Bioaccumulative potential**

No further relevant information available.

**• 12.4 Mobility in soil**

No further relevant information available.

**• Additional ecological information:****• General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**• 12.5 Results of PBT and vPvB assessment****• PBT:**

Not applicable.

**• vPvB:**

Not applicable.

**• 12.6 Other adverse effects**

No further relevant information available.

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**SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods**

- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:

- Recommendation:

Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- 14.1 UN-Number**

- ADR, IMDG, IATA

UN3082

- 14.2 UN proper shipping name**

- ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

- IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

- IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

- 14.3 Transport hazard class(es)**

- ADR



- Class

9 (M6) Miscellaneous dangerous substances and articles.

- Label

9

- IMDG, IATA



- Class

9 Miscellaneous dangerous substances and articles.

- Label

9

- 14.4 Packing group**

- ADR, IMDG, IATA

III

- 14.5 Environmental hazards:**

- Marine pollutant:

Product contains environmentally hazardous substances:

Symbol (fish and tree)

- Special marking (ADR):

Symbol (fish and tree)

- Special marking (IATA):

Symbol (fish and tree)

- 14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

- Danger code (Kemler):

90

- EMS Number:

F-A,S-F

- Stowage Category

A

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

- Transport/Additional information:

Not dangerous according to the above specifications.

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· ADR	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· IMDG	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I  
None of the ingredients is listed.
- Seveso category  
E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements  
200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements  
500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII  
Conditions of restriction: 3
- National regulations:
- Information about limitation of use: Employment restrictions concerning juveniles must be observed.
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- VOC EU  
145.5 g/l
- 15.2 Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.
- Department issuing SDS: Laboratory
- Contact: Dieter Zimmermann  
Elke Hake  
Fon ++49 (0)911 64296-59  
@mail E.Hake@akemi.de
- Abbreviations and acronyms:  
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  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity - dermal – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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