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according to 1907/2006/EC, Article 31

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

- **1.1 Product identifier**
- **Trade name Kieserol KF11 GFK Reiniger . Acetonersatz**
- **Article number: GFKREI-KF11-0000**
- **EC number:**
906-170-0
- **REACh-Registration number** 01-2119475445-32
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** See section 16
- **Application of the substance / the mixture** Cleaner
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

Kiesewetter GmbH...und die Chemie stimmt
Maybachstr. 8b
51381 Leverkusen
Tel.: +49 (0) 2171 9128055
Fax: +49 (0) 2171 9128054
Web: www.kieserol.de
Email: info@kieserol.de

- **Informing department:** General Management
- **1.4 Emergency telephone number:**
Medical Emergency information in case of poisoning:
Poison Information Center Mainz - 24h - Phone: +49 (0) 6131 19240 (advisory service in German or Englisch language)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The substance is not classified according to the CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Designation:**
- Reaction mass of 1,5-dimethyl glutarate, 1,6-dimethyl adipate and 1,4-dimethyl succinate
- **Identification no(s):**
- **EC number:** 906-170-0
- **Description:** Solvent mixture.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General advice:** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Wash skin with water using soap if available.If persistant irritation occurs, obtain medical attention.
- **After eye contact**
Rinse opened eye for 15 minutes under running water.
In case of persistent symptoms consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Information for doctor**
Cleaning of the stomach should only be carried out with endotracheal intubation. Danger of aspiration.
Renew lipid coating of the skin in order to protect against dermatitis. Symptomatic treatment.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
Carbon dioxide, extinguishing powder, water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of explosive air/steam mixtures likely.
Not classified as flammable but will burn. Hazardous combustion
products may include carbon monoxide.
Can be released in case of fire:
organic decomposition products
- **5.3 Advice for firefighters**
- **Protective equipment:**
See section 8.
Wear full protective suit with self-contained breathing apparatus.
- **Additional information**
Endangered containers in the surrounding area should be cooled with a water-hose.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep off unprotected persons
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
If large amounts are released, the authorities must be informed.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Contaminated material has to be disposed as waste (see item 13).
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.
Danger of burning is possible

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** The usual good standards of industrial hygiene should be maintained.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Pay attention to general rules of internal fire prevention.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage** Keep containers tightly closed. Store in cool, dry conditions.
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:**
Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** Not required.

- **DNELs**		
Inhalative	DNEL (worker)	8.3 mg/m³ (Long-term - local effects)
	DNEL (population)	5 mg/m³ (Long-term - local effects)

- **PNECs**	
PNEC aqua	0.018 mg/l (fresh water)
	0.002 mg/l (marine water)
PNEC	10 mg/l (STP (sewage treatment plant))
PNEC	0.09 mg/kg dw (soil)
PNEC sediment	0.16 mg/kg dw (fresh water)
	0.016 mg/kg dw (marine water)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from food, beverages and fodder.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.
- **Breathing equipment:**
Not necessary if room is well-ventilated.
Use breathing protection in case of insufficient ventilation.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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.
- **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
- **Not suitable are gloves made of the following materials:** Nitrile rubber, NBR
- **Eye protection:** Safety glasses
- **Body protection:**
Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**	
- **General Information**	
- **Appearance:**	
Form:	Fluid
Colour:	Colourless
- **Smell:**	Characteristic
- **Odour threshold:**	Not determined.
- **pH-value:**	Not determined.
- **Change in condition**	
Melting point/freezing point:	-55°C
Initial boiling point and boiling range:	196-225°C
- **Flash point:**	ca. 100°C
- **Inflammability (solid, gaseous)**	Not applicable.
- **Ignition temperature:**	> 400°C
- **Decomposition temperature:**	Not determined.
- **Self-inflammability:**	Not determined.
- **Explosive properties:**	Product is not potentially explosive
- **Critical values for explosion:**	
Lower:	1,2Vol %
Upper:	7,9Vol %
- **Vapour pressure at 20°C:**	0,05hPa
- **Density at 20°C**	1,09g/cm³
- **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.

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- **Viscosity:**
  dynamic: Not determined.
  kinematic: Not determined.
- **9.2 Other information** No further relevant information available.
- **molecular weight (weight average/Mw):** 159 g/mol

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid: warmth, flames, sparks
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** strong oxidizing agents
- **10.6 Hazardous decomposition products:**
  Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.
- **Additional information:**
  Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, which will include carbon monoxide.

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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 that are relevant for classification:**

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**

- **STOT-repeated exposure:**

Oral	NOAEL	980 mg/kg (rat)

- **CMR effects (carcinogenity, 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.

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SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**	
LC 50 / 96 h	18-24 mg/l (Algae)
EC 50 / 48 h	> 100 mg/l (Daphnia magna)
NOEC / 72 h	36 mg/l (Pseudokirchneriella subcapitata)

- **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:** Do not allow to enter drainage system, surface or ground 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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
A used product should be recycled or used in other contexts, otherwise be handed over to an appropriate disposal site.
- **Waste disposal key number:**
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- **Uncleaned packagings:** Disposal must be made according to official regulations.
- **Recommendation:**
After complete emptying and cleaning, send to be reconditioned or recycled.
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning.
Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

SECTION 14: Transport information

- **14.1 UN-Number**	
- **ADR, IMDG, IATA**	Void
- **14.2 UN proper shipping name**	
- **ADR, IMDG, IATA**	Void
- **14.3 Transport hazard class(es)**	
- **ADR, IMDG, IATA**	
- **Class**	Void
- **14.4 Packing group**	
- **ADR, IMDG, IATA**	Void

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- **14.5 Environmental hazards:**	
- **Marine pollutant:**	No
- **14.6 Special precautions for user**	Not applicable.
- **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.
- **UN "Model Regulation":**	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **TSCA (Toxic Substances Control Act)** Substance is listed.
- **Canadian Domestic Substances List (DSL)** Substance is listed.
- **Philippines Inventory of Chemicals and Chemical Substances** Substance is listed.
- **Chinese Chemical Inventory of Existing Chemical Substances** Substance is listed.
- **Australian Inventory of Chemical Substances** Substance is listed.

- **Korean Existing Chemical Inventory**		
CAS: 106-65-0	dimethyl succinate	KE-03764
CAS: 1119-40-0	dimethyl glutarate	KE-27978
CAS: 627-93-0	dimethyl adipate	KE-18697

- **New Zealand Inventory of Chemicals** Substance is listed.

- **Existing Chemical Substances (Japan)**		
CAS: 106-65-0	dimethyl succinate	2-848
CAS: 1119-40-0	dimethyl glutarate	2-925
CAS: 627-93-0	dimethyl adipate	2-879

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant identified uses / Application :**

Industrial :
Manufacture of substance
Use as an intermediate
Formulation & (re)packing of substances and mixtures
Uses in coatings
Use in Cleaning Agents
Lubricants
Metal working fluids / rolling oils
Functional Fluids
Use in laboratories
Water treatment chemicals
Use in Oil & Gas field drilling and (offshore) production activities

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Use as a fuel (or fuel additive)
Mining chemicals
Use as Binders and Release Agents
Polymer production and processing
Rubber production and processing
Blowing agents
Professional :
Uses in coatings
Use in Cleaning Agents
Metal working fluids / rolling oils
Functional Fluids
Use in laboratories
Water treatment chemicals
De-icing and anti-icing applications
Lubricants
Use as a fuel (or fuel additive)
Use as Binders and Release Agents
Use in Agrochemicals
Road and Construction Application
Polymer production and processing
Consumer :
De-icing and anti-icing applications
Uses in coatings
Use in Cleaning Agents
Use in Agrochemicals
Use as a fuel (or fuel additive)
Lubricants
Functional Fluids
Other Consumer Uses

- **Department issuing data specification sheet:** see item 1: Informing department
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
NOAEL: No Observed Adverse Effect Level
LEV: Local Exhaust Ventilation
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC and RCR= Estimated Exposition/DNEL)
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 Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial 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
vPvB: very Persistent and very Bioaccumulative
- *** Data compared to the previous version altered.**