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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 09.11.2011 / 0010  
Replaces revision of / Version: 05.04.2011 / 0009  
Valid from: 09.11.2011  
PDF print date: 16.01.2012  
Hako Cleanol-SE

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

#### Hako Cleanol-SE

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

##### Relevant identified uses of the substance or mixture:

Cleaning product

##### Uses advised against:

No information available at present.

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

Hako Werk GmbH, Hamburgerstraße 209-239, D-23843 Bad Oldesloe  
Telephone 04531 806309, Fax 04531 806338  
info@hako.com

HILCO Chemie B.V. , Postfach 105, NL-6674 ZJ HERVELD  
Telefon: 0031 488473330, Telefax.: 0031 488473331

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

#### 1.4 Emergency telephone

##### Advisory office in case of poisoning:

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##### Telephone number of the company in case of emergencies:

Tel.: 0031 488473330

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

##### 2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Xi, Irritant, R41

#### 2.2 Label elements

##### 2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not determined

##### 2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Symbols: Xi

Indications of danger:

Irritant

R-phrases:

41 Risk of serious damage to eyes.

S-phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

35 This material and its container must be disposed of in a safe way.

39 Wear eye/face protection.



Additions: n.a.

**2.3 Other hazards**

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

**REGULATION (EC) No 648/2004**

15 % or over but less than 30 %

non-ionic surfactants

5 % or over but less than 15 %

amphoteric surfactants

perfumes

BUTYLPHENYL METHYLPROPIONAL

DIMETHYLOL GLYCOL

METHYLCHLOROISOTHIAZOLINONE/ METHYLISOTHIAZOLINONE

FORMALDEHYDE

**SECTION 3: Composition/information on ingredients****3.1 Substance**

n.a.

**3.2 Mixture**

<b>(carboxylatomethyl)dodecyldimethylammonium</b>	
Registration number (ECHA)	--
Index	---
EINECS, ELINCS	211-669-5
CAS	CAS 683-10-3
content %	1-10
Symbol	Xi
R-phrases	38-41
Classification categories / Indications of danger	Irritant
Hazard class/Hazard category	<b>Hazard statement</b>
Skin Irrit./2	H315
Eye Dam./1	H318

<b>Alcohol, (C9-11), ethoxylate, solution</b>	
Registration number (ECHA)	--
Index	---
EINECS, ELINCS	-
CAS	CAS 68439-46-3
content %	1-10
Symbol	Xn/Xi
R-phrases	22-41
Classification categories / Indications of danger	Harmful, Irritant
Hazard class/Hazard category	<b>Hazard statement</b>
Acute Tox./4	H302
Eye Dam./1	H318

<b>Ethoxylated isotridecanol</b>	
Registration number (ECHA)	--
Index	---
EINECS, ELINCS	-
CAS	CAS n.v.
content %	1-10
Symbol	Xi
R-phrases	41
Classification categories / Indications of danger	Irritant
Hazard class/Hazard category	<b>Hazard statement</b>
Eye Dam./1	H318

<b>sodium cumenesulfonate</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS</b>	248-983-7
<b>CAS</b>	CAS 28348-53-0
<b>content %</b>	1-10
<b>Symbol</b>	Xi
<b>R-phrases</b>	36
<b>Classification categories / Indications of danger</b>	Irritant
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Eye Irrit./2	H319

<b>2-tert-Butylcyclohexyl acetate</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS</b>	201-828-7
<b>CAS</b>	CAS 88-41-5
<b>content %</b>	0,1-<2,5
<b>Symbol</b>	N
<b>R-phrases</b>	51-53
<b>Classification categories / Indications of danger</b>	Dangerous for the environment
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Aquatic Chronic/2	H411

<b>Allyl heptanoate</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS</b>	205-527-1
<b>CAS</b>	CAS 142-19-8
<b>content %</b>	0,1-<0,25
<b>Symbol</b>	Xn/Xi/N
<b>R-phrases</b>	21/22-38-50-53
<b>Classification categories / Indications of danger</b>	Dangerous for the environment, Harmful, Irritant
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Acute Tox./4	H312
Acute Tox./4	H302
Skin Irrit./2	H315
Aquatic Acute/1	H400
Aquatic Chronic/1	H410

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Not required.

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Consult medical specialist.

#### Ingestion

Rinse the mouth thoroughly with water.

Consult doctor immediately - keep Data Sheet available.

### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Skin irritation possible with prolonged contact.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

n.c.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Adapt to the nature and extent of fire.

##### **Unsuitable extinguishing media**

n.c.

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

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Oxides of sulphur

Toxic pyrolysis products.

#### **5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

### **SECTION 6: Accidental release measures**

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

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping

#### **6.2 Environmental precautions**

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

Do not pour down the drain undiluted.

#### **6.3 Methods and material for containment and cleaning up**

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Diluting with water is possible.

#### **6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### **7.1 Precautions for safe handling**

##### **7.1.1 General recommendations**

Ensure good ventilation.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

##### **7.1.2 Notes on general hygiene measures at the workplace**

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

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Not to be stored in gangways or stair wells.  
Store at room temperature.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
Applies only if maximum permissible exposure values are listed here.

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

If applicable

Face protection (EN 166)

Skin protection - Hand protection:

Protective hand cream recommended.

If applicable

Rubber gloves (EN 374).

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:

Normally not necessary.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Green
Colour:	Clear
Odour:	Perfumed

Odour threshold:	Not determined
pH-value:	7
Melting point/freezing point:	~0 °C
Initial boiling point and boiling range:	~100 °C
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	1,02 g/ml
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Mixable
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Not determined
Oxidising properties:	Not determined

**9.2 Other information**

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

See also Subsection 10.4 to 10.6.  
 The product has not been tested.

**10.2 Chemical stability**

See also Subsection 10.4 to 10.6.  
 Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions**

See also Subsection 10.4 to 10.6.  
 No decomposition if used as intended.

**10.4 Conditions to avoid**

**10.5 Incompatible materials**

See also section 7.  
 No dangerous reactions are known.

**10.6 Hazardous decomposition products**

See also Subsection 10.4 to 10.6.  
 See also section 5.2  
 No decomposition when used as directed.

**SECTION 11: Toxicological information**

Hako Cleanol-SE						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.



Persistence and degradability:							The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents., Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.
Other ecotoxicological data:							According to the recipe, contains no AOX.

<b>Alcohol, (C9-11), ethoxylate, solution</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Persistence and degradability:							Readily biodegradable

<b>sodium cumenesulfonate</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>100	mg/l	(Cyprinus caprio)	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	>100	mg/l	(Daphnia magna)	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	EC50	72h	>100	mg/l	(Desmodesmus subspicatus)	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		6d	>60	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable

<b>Allyl heptanoate</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	0,1-<1	mg/l			Analogous conclusion

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

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Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

07 06 01 aqueous washing liquids and mother liquors  
 20 01 29 detergents containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

**For contaminated packing material**

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

**SECTION 14: Transport information**

**General statements**

UN number: n.a.

**Transport by road/by rail (ADR/RID)**

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Classification code: n.a.

LQ (ADR 2011): n.a.

LQ (ADR 2009): n.a.

Environmental hazards: Not applicable

Tunnel restriction code:

**Transport by sea (IMDG-code)**

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Marine Pollutant: n.a.

Environmental hazards: Not applicable

**Transport by air (IATA)**

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Environmental hazards: Not applicable

**Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Non-dangerous material according to Transport Regulations.

**SECTION 15: Regulatory information**

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

For classification and labelling see Section 2.

Observe restrictions: Yes

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

Regulation (EC) No 1907/2006, Annex XVII

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information**

These details refer to the product as it is delivered.

Revised sections: 3, 8, 11, 12

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).

38 Irritating to skin.

- 41 Risk of serious damage to eyes.
- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 51 Toxic to aquatic organisms.
- 50 Very toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 21/22 Harmful in contact with skin and if swallowed.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

- Skin Irrit.-Skin irritation
- Eye Dam.-Serious eye damage
- Acute Tox.-Acute toxicity - oral
- Eye Irrit.-Eye irritation
- Aquatic Chronic-Hazardous to the aquatic environment - chronic
- Acute Tox.-Acute toxicity - dermal
- Aquatic Acute-Hazardous to the aquatic environment - acute

**Any abbreviations and acronyms used in this document:**

- AC Article Categories
- acc., acc. to according, according to
- ACGIH American Conference of Governmental Industrial Hygienists
- ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
- AOEL Acceptable Operator Exposure Level
- AOX Adsorbable organic halogen compounds
- approx. approximately
- Art., Art. no. Article number
- ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
- BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
- BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
- BCF Bioconcentration factor
- BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
- BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
- BMGV Biological monitoring guidance value (EH40, UK)
- BOD Biochemical oxygen demand
- BSEF Bromine Science and Environmental Forum
- bw body weight
- CAS Chemical Abstracts Service
- CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
- CIPAC Collaborative International Pesticides Analytical Council
- CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
- CMR carcinogenic, mutagenic, reproductive toxic
- COD Chemical oxygen demand
- CTFA Cosmetic, Toiletry, and Fragrance Association
- DMEL Derived Minimum Effect Level
- DNEL Derived No Effect Level
- DOC Dissolved organic carbon
- DT50 Dwell Time - 50% reduction of start concentration
- DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
- dw dry weight
- e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
- EC European Community
- ECHA European Chemicals Agency
- EEA European Economic Area

EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ERC Environmental Release Categories  
 ES Exposure scenario  
 etc. et cetera  
 EU European Union  
 EWC European Waste Catalogue  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC Intermediate Bulk Container  
 IBC (Code) International Bulk Chemical (Code)  
 IC Inhibitory concentration  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 LC lethal concentration  
 LC50 lethal concentration 50 percent kill  
 LCLo lowest published lethal concentration  
 LD Lethal Dose of a chemical  
 LD50 Lethal Dose, 50% kill  
 LDLo Lethal Dose Low  
 LMBG Lebensmittel- und Bedarfsgegenständegesetz (= Foodstuffs and Commodities Law)  
 LOAEL Lowest Observed Adverse Effect Level  
 LOEC Lowest Observed Effect Concentration  
 LOEL Lowest Observed Effect Level  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute of Occupational Safety and Health (United States of America)  
 NOAEC No Observed Adverse Effective Concentration  
 NOAEL No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration  
 NOEL No Observed Effect Level  
 ODP Ozone Depletion Potential  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PAH polycyclic aromatic hydrocarbon  
 PBT persistent, bioaccumulative and toxic  
 PC Chemical product category  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 POCP Photochemical ozone creation potential  
 ppm parts per million  
 PROC Process category  
 PTFE Polytetrafluorethylene  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SADT Self-Accelerating Decomposition Temperature  
 SAR Structure Activity Relationship  
 SU Sector of use  
 SVHC Substances of Very High Concern

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Tel. Telephone  
ThOD Theoretical oxygen demand  
TOC Total organic carbon  
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)  
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).  
WHO World Health Organization  
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.  
No responsibility.

These statements were made by:

Gefahrstoffberatung Schnurbusch GmbH & Co. KG Tel.: 05233-9417-0 FAX: 05233-941790

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