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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 19.01.2011 / 0015
Replaces revision of / Version: 18.08.2008 / 0014
Valid from: 19.01.2011
PDF print date: 16.01.2012
Hako Cleanol Food

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 Food

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

Relevant identified uses of the substance or mixture:

Cleaning product
for the food industry

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:

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).

C, Corrosive, R35

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: C
Indications of danger: Corrosive

R-phrases:

35 Causes severe burns.

S-phrases:

(1/2) Keep locked up and out of the reach of children.

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

28 After contact with skin, wash immediately with plenty of water.

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



36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Additions:

Potassium hydroxide

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

less than 5 %

amphoteric surfactants

phosphates

phosphonates

non-ionic surfactants

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Potassium hydroxide	
Registration number (ECHA)	--
Index	019-002-00-8
EINECS, ELINCS	215-181-3
CAS	CAS 1310-58-3
content %	5-10
Symbol	Xn/C
R-phrases	22-35
Classification categories / Indications of danger	Corrosive, Harmful
Hazard class/Hazard category	Hazard statement
Skin Corr./1A	H314
Acute Tox./4	H302
Met. Corr./1	H290

Propan-2-ol	
Registration number (ECHA)	--
Index	603-117-00-0
EINECS, ELINCS	200-661-7
CAS	CAS 67-63-0
content %	1-10
Symbol	F/Xi
R-phrases	11-36-67
Classification categories / Indications of danger	Highly flammable, Irritant
Hazard class/Hazard category	Hazard statement
Flam. Liq./2	H225
Eye Irrit./2	H319
STOT SE/3	H336

nitrilotrimethylenetris(phosphonic acid)	
Registration number (ECHA)	--
Index	---
EINECS, ELINCS	229-146-5
CAS	CAS 6419-19-8
content %	1-<10
Symbol	C
R-phrases	34
Classification categories / Indications of danger	Corrosive
Hazard class/Hazard category	Hazard statement

Skin Corr./1B	H314
N-2-Hydroxyethyl-N-carboxymethyl fatty acid amidoethylamine-Na-Salt	
Registration number (ECHA)	--
Index	---
EINECS, ELINCS	293-957-0
CAS	CAS 91671-57-7
content %	1-5
Symbol	Xi
R-phrases	36/38
Classification categories / Indications of danger	Irritant
Hazard class/Hazard category	Hazard statement
Eye Irrit./2	H319
Skin Irrit./2	H315
Alcohol alkoxylate	
Registration number (ECHA)	--
Index	---
EINECS, ELINCS	-
CAS	CAS n.v.
content %	1-5
Symbol	N
R-phrases	50
Classification categories / Indications of danger	Dangerous for the environment
Hazard class/Hazard category	Hazard statement
Aquatic Acute/1	H400

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

Supply person with fresh air and consult doctor according to symptoms.

Remove person from danger area.

Keep Data Sheet available.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately and call a doctor. Have Data Sheet available.

Eye contact

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

Ingestion

Do not induce vomiting.

Keep Data Sheet available.

Note pH value.

Give copious water to drink - consult doctor immediately.

If applicable:

Neutralisation possible.

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.

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

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media

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High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

Corrosive vapours

5.3 Advice for firefighters

Alkali-resistant protection clothing.

Protective respirator with independent air supply.

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

Avoid all contact with product.

Danger - risk of slipping.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

If leakage occurs, dam up.

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

Prevent from entering drainage system.

6.3 Methods and material for containment and cleaning up

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

Diluting with water is possible.

Flush residue using copious water.

Neutralising is possible (only from a specialist).

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

Observe directions on label and instructions for use.

Only 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.

Observe regulations for keeping separated.

Do not use alkali sensitive materials.

Store product closed and only in original packing.

Store separately from acids.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Potassium hydroxide		Content %:5-10
WEL-TWA: ---	WEL-STEL: 2 mg/m3	---	
BMGV: ---	Other information: ---		

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Chemical Name	Propan-2-ol		Content %:1-10
WEL-TWA: 400 ppm (999 mg/m3)	WEL-STEL: 500 ppm (1250 mg/m3)	---	
BMGV: ---	Other information: ---		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Propan-2-ol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - dermal	Long term	DNEL	888	mg/kg	(1 d)
Workers / employees	Human - inhalation	Long term	DNEL	500	mg/m3	
Consumer	Human - dermal	Long term	DNEL	319	mg/kg	(1 d)
Consumer	Human - inhalation	Long term	DNEL	89	mg/m3	
Consumer	Human - oral	Long term	DNEL	26	mg/kg	(1 d)
	Environment - freshwater		PNEC	140,9	mg/l	
	Environment - marine		PNEC	140,9	mg/l	
	Environment - sediment, freshwater		PNEC	552	mg/kg	
	Environment - sediment, marine		PNEC	552	mg/kg	
	Environment - soil		PNEC	28	mg/kg	

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).
 Face protection (EN 166)

Skin protection - Hand protection: Use alkali resistant protective gloves (EN 374).
 With short-term contact:
 Rubber gloves (EN 374).

Skin protection - Other: Alkali-resistant protection clothing (EN 13034)

Respiratory protection: Normally not necessary.
 If OES or MEL is exceeded.
 Filter A (EN 14387), code colour brown

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.

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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:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	13,5-14
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	>95 °C
Flash point:	>100 °C
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:	1,12 g/ml
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Mixable
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	No
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Not determined
Oxidising properties:	No

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.

10.4 Conditions to avoid

See also section 7.

10.5 Incompatible materials

See also section 7.

Avoid contact with alkali sensitive materials.

Contact with strong acids leads to strong exothermic reaction.

Avoid contact with certain metals e.g. aluminium (development of hydrogen gas possible).

Avoid contact with other chemicals.

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10.6 Hazardous decomposition products

See also Subsection 10.4 to 10.6.

See also section 5.2

SECTION 11: Toxicological information

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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.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.
Other toxicity data:						Classification according to calculation procedure.

Potassium hydroxide						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	333-388	mg/kg	Rat	OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure)	
Respiratory or skin sensitisation:						Not sensitizing
Symptoms:						ataxia, respiratory distress, vomiting, annoyance, blisters, cornea opacity, coughing, cramps, circulatory collapse, pain in the mouth and throat, shock

Propan-2-ol						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4570	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	12800	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	30	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:						Irritant

Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Symptoms:						breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea

nitrilotrimethylenetris(phosphonic acid)						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2910	mg/kg	Rat		
Respiratory or skin sensitisation:				Guinea pig		Not sensitizing
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative

SECTION 12: Ecological information

High pH-value can be harmful to water.

Hako Cleanol Food							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							n.d.a.
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.

Potassium hydroxide							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	80	mg/l	(Gambusia affinis)		
Results of PBT and vPvB assessment							n.a.
Toxicity to bacteria:	EC50	15min	22	mg/l	(Photobacterium phosphoreum)		

Propan-2-ol							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	9640	mg/l	(Pimephales promelas)		
Toxicity to daphnia:	EC50	48h	>100	mg/l	(Daphnia magna)		References
Toxicity to daphnia:	LC50	48h	13.299	mg/l	(Daphnia magna)		References
Toxicity to algae:	EC50	72h	>1000	mg/l	(Scenedesmus subspicatus)		
Persistence and degradability:		21d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	

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Bioaccumulative potential:	Log Pow		0,05			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	
Toxicity to bacteria:	EC10	18h	5175	mg/l	(Pseudomonas putida)	DIN 38412 T.8	
Water solubility:							

nitrilotrimethylenetrakis(phosphonic acid)							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>160	mg/l	(Salmo gairdneri)		
Toxicity to fish:	LC50	96h	330	mg/l	(Lepomis macrochirus)		
Toxicity to daphnia:	EC50	48h	>297	mg/l	(Daphnia magna)	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Persistence and degradability:		28d	0			OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	

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. 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)
 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

SECTION 14: Transport information


General statements

UN number: 1719

Transport by road/by rail (ADR/RID)

UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S (POTASSIUM HYDROXIDE, SOLUTION) 
 Transport hazard class(es): 8
 Packing group: II
 Classification code: C5
 LQ (ADR 2011): 1 L
 LQ (ADR 2009): 22
 Environmental hazards: Not applicable
 Tunnel restriction code: E

Transport by sea (IMDG-code)

UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S (POTASSIUM HYDROXIDE, SOLUTION) 
 Transport hazard class(es): 8

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Packing group: II
 EmS: F-A, S-B
 Marine Pollutant: n.a
 Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:
 Caustic alkali liquid, n.o.s (POTASSIUM HYDROXIDE, SOLUTION)
 Transport hazard class(es): 8
 Packing group: II
 Environmental hazards: Not applicable



Special precautions for user

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.
 Minimum amount regulations have not been taken into account.
 Danger code and packing code on request.

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.
 Comply with trade association/occupational health regulations.
 Observe restrictions: Yes
 Observe youth employment law (German regulation).
 Regulation (EC) No 1907/2006, Annex XVII
 VOC 1999/13/EC ~ 2%

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: 1 - 16
 The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).
 22 Harmful if swallowed.
 35 Causes severe burns.
 11 Highly flammable.
 36 Irritating to eyes.
 67 Vapours may cause drowsiness and dizziness.
 34 Causes burns.
 36/38 Irritating to eyes and skin.
 50 Very toxic to aquatic organisms.
 H314 Causes severe skin burns and eye damage.
 H225 Highly flammable liquid and vapour.
 H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.

Skin Corr.-Skin corrosion
 Acute Tox.-Acute toxicity - oral
 Met. Corr.-Substance or mixture corrosive to metals
 Flam. Liq.-Flammable liquid
 Eye Irrit.-Eye irritation
 STOT SE-Specific target organ toxicity - single exposure - narcotic effects
 Skin Irrit.-Skin irritation

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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
- 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:

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