



Page 1 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 06.08.2015 / 0001
Replacing version dated / version: 06.08.2015 / 0001
Valid from: 06.08.2015
PDF print date: 27.08.2015
hand cleaner scarves
Art.: 9081274

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

hand cleaner scarves
Art.: 9081274

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

Skin cleaning
Sector of use [SU]:
SU 0 - Other
SU 1 - Agriculture, forestry, fishery
SU19 - Building and construction work
SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Chemical product category [PC]:
PC35 - Washing and cleaning products (including solvent based products)
Process category [PROC]:
PROC26 - Handling of solid inorganic substances at ambient temperature
Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet



BTI Befestigungstechnik GmbH & Co. KG, Salzstr. 51, 74653 Ingelfingen, Germany
Phone: +49 7940 141 256, Fax: +49 7940 141 9256
Stefan.Haug@bti.de, www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
Not applicable

2.2 Label elements

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



Page 2 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 06.08.2015 / 0001
 Replacing version dated / version: 06.08.2015 / 0001
 Valid from: 06.08.2015
 PDF print date: 27.08.2015
 hand cleaner scarves
 Art.: 9081274

Not applicable

Cosmetics regulations are to be applied.

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.

SECTION 3: Composition/information on ingredients

INCI:

AQUA, D-LIMONENE, C9-12-ISOALKANES, C11-15 SEC-PARETH-12, ISOPROPYL ALCOHOL, PROPYLENE GLYCOL, SODIUM LAURYL SULFATE, BHT, HYDROGENATED STARCH HYDROLYSATE, BENZYL ALCOHOL, POTASSIUM SORBATE, ETHYLHEXYLGLYCERIN, LINALOOL ALCOHOLS C12-C14, AMYL ACETATE, CITRAL, CINNAMAL, EUGENOL, TOCOPHEROL, PETROLEUM DISTILLATES, METHYL SALICYLATE, BENZALDEHYDE, ETHYL ACETATE, ETHYL BUTYRATE

3.1 Substance

n.a.

3.2 Mixture

(R)-p-mentha-1,8-diene	
Registration number (REACH)	--
Index	601-029-00-7
EINECS, ELINCS, NLP	227-813-5
CAS	5989-27-5
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	
Registration number (REACH)	01-2119472146-39-XXXX
Index	---
EINECS, ELINCS, NLP	918-167-1 (REACH-IT List-No.)
CAS	---
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413

Alcohol ethoxylate	
Registration number (REACH)	--
Index	---
EINECS, ELINCS, NLP	-
CAS	68131-40-8



Page 3 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 06.08.2015 / 0001
Replacing version dated / version: 06.08.2015 / 0001
Valid from: 06.08.2015
PDF print date: 27.08.2015
hand cleaner scarves
Art.: 9081274

content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318
Propan-2-ol	
Registration number (REACH)	--
Index	603-117-00-0
EINECS, ELINCS, NLP	200-661-7
CAS	67-63-0
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
The substances named in this section are given with their actual, appropriate classification!
For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Not required.

Skin contact

Not applicable

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Typically no exposure pathway.

Call doctor immediately - have 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.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Page 4 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 06.08.2015 / 0001
Replacing version dated / version: 06.08.2015 / 0001
Valid from: 06.08.2015
PDF print date: 27.08.2015
hand cleaner scarves
Art.: 9081274

In case of fire the following can develop:

Oxides of carbon

Toxic gases

5.3 Advice for firefighters

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

Protective respirator with independent air supply.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

Prevent from entering drainage system.

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

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

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

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

Observe directions on label and instructions for use.

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

Store product closed and only in original packing.

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

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):

1200 mg/m³

Ⓒ

Page 5 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 06.08.2015 / 0001
 Replacing version dated / version: 06.08.2015 / 0001
 Valid from: 06.08.2015
 PDF print date: 27.08.2015
 hand cleaner scarves
 Art.: 9081274

Chemical Name	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Content %:1-5
WEL-TWA: 1200 mg/m ³ (>=C7 normal and branched chain alkanes)	WEL-STEL: 2(II) (AGW)	---
Monitoring procedures:	<ul style="list-style-type: none"> - Draeger - Hydrocarbons 2/a (81 03 581) - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Compur - KITA-187 S (551 174) 	
BMGV: ---	Other information: ---	

Chemical Name	Propan-2-ol	Content %:1-5
WEL-TWA: 400 ppm (999 mg/m ³)	WEL-STEL: 500 ppm (1250 mg/m ³)	---
Monitoring procedures:	<ul style="list-style-type: none"> - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-150 U (550 382) - Draeger - Alcohol 25/a i-Propanol (81 01 631) - DFG (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 6) - 1998, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 66-3 (2004) - Draeger - Alcohol 25/a (81 01 631) - Draeger - Alcohol 100/a (CH 29 701) 	
BMGV: ---	Other information: ---	

Chemical Name	Propane-1,2-diol	Content %:
WEL-TWA: 150 ppm (474 mg/m ³) (total, vapour and particulates), 10 mg/m ³ (particulates)	WEL-STEL: ---	---
Monitoring procedures:	<ul style="list-style-type: none"> - Draeger - Alcohol 25/a (81 01 631) - Draeger - Alcohol 100/a (CH 29 701) 	
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/m ³	
Consumer	Human - dermal	Long term	DNEL	319	mg/kg	(1 d)
Consumer	Human - inhalation	Long term	DNEL	89	mg/m ³	
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	



Page 6 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 06.08.2015 / 0001
 Replacing version dated / version: 06.08.2015 / 0001
 Valid from: 06.08.2015
 PDF print date: 27.08.2015
 hand cleaner scarves
 Art.: 9081274

	Environment - sediment, freshwater		PNEC	552	mg/kg	
	Environment - sediment, marine		PNEC	552	mg/kg	
	Environment - soil		PNEC	28	mg/kg	
	Environment - sewage treatment plant		PNEC	2251	mg/l	

Propane-1,2-diol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	168	mg/m ³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m ³	
Consumer	Human - dermal	Long term, systemic effects	DNEL	213	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	50	mg/m ³	
Consumer	Human - oral	Long term, systemic effects	DNEL	85	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	10	mg/m ³	
	Environment - freshwater		PNEC	260	mg/l	
	Environment - marine		PNEC	26	mg/l	
	Environment - sewage treatment plant		PNEC	2000	mg/l	
	Environment - sediment, freshwater		PNEC	572	mg/kg	
	Environment - sediment, marine		PNEC	57,2	mg/kg	
	Environment - soil		PNEC	50	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	183	mg/l	

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.



Page 7 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 06.08.2015 / 0001
Replacing version dated / version: 06.08.2015 / 0001
Valid from: 06.08.2015
PDF print date: 27.08.2015
hand cleaner scarves
Art.: 9081274

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:
Normally not necessary.

Skin protection - Hand protection:
Normally not necessary.

Skin protection - Other:
Normally not necessary.

Respiratory protection:
Normally not necessary.

Thermal hazards:
Not applicable

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:	Impregnated cloth, Substance: Liquid
Colour:	White, Opaque
Odour:	Lemon
Odour threshold:	Not determined
pH-value:	~7-7,5 (Not determined)
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	47,5 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined



Page 8 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 06.08.2015 / 0001
 Replacing version dated / version: 06.08.2015 / 0001
 Valid from: 06.08.2015
 PDF print date: 27.08.2015
 hand cleaner scarves
 Art.: 9081274

Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,97-0,98 g/cm ³ (Active substance)
Bulk density:	n.a.
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:	Product is not explosive.
Oxidising properties:	No
9.2 Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	11,5 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Not to be expected

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

hand cleaner scarves Art.: 9081274						
Toxicity / effect	Endp oint	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.

©

Page 9 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 06.08.2015 / 0001
 Replacing version dated / version: 06.08.2015 / 0001
 Valid from: 06.08.2015
 PDF print date: 27.08.2015
 hand cleaner scarves
 Art.: 9081274

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.
Symptoms:						n.d.a.
Other information:						Classification according to calculation procedure.

(R)-p-mentha-1,8-diene						
Toxicity / effect	Endp oint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by oral route:	LD50	4400	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Symptoms:						diarrhoea, rash, itching, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting.

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics						
Toxicity / effect	Endp oint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		

®

Page 10 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 06.08.2015 / 0001
 Replacing version dated / version: 06.08.2015 / 0001
 Valid from: 06.08.2015
 PDF print date: 27.08.2015
 hand cleaner scarves
 Art.: 9081274

Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 427 (Skin Absorption - In Vivo Method)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m ³	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:						Not irritant
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant (Analogous conclusion)
Respiratory or skin sensitisation:						Not sensitizing
Respiratory or skin sensitisation:						Not sensitizing (Analogous conclusion)
Germ cell mutagenicity:						Analogous conclusion, Negative
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Analogous conclusion, Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):						Analogous conclusion, No
Aspiration hazard:						Yes
Symptoms:						drowsiness, headaches

Alcohol ethoxylate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>412	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>14000	mg/kg	Rat		
Acute toxicity, by inhalation:	LD50	1,06	mg/l/4 h	Rat		Aerosol
Skin corrosion/irritation:						Irritant
Serious eye damage/irritation:						Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Human being		Not sensitizing

®

Page 11 of 19

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

Revision date / version: 06.08.2015 / 0001

Replacing version dated / version: 06.08.2015 / 0001

Valid from: 06.08.2015

PDF print date: 27.08.2015

hand cleaner scarves

Art.: 9081274

Aspiration hazard:						No indications of such an effect.
--------------------	--	--	--	--	--	-----------------------------------

Propan-2-ol						
Toxicity / effect	Endp oint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	5840	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	13900	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	30	mg/l/4 h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit		Eye Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):						Target organ(s): liver
Symptoms:						breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea

Propane-1,2-diol						
Toxicity / effect	Endp oint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	22000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Skin corrosion/irritation:						Not irritant



Page 13 of 19

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

Revision date / version: 06.08.2015 / 0001

Replacing version dated / version: 06.08.2015 / 0001

Valid from: 06.08.2015

PDF print date: 27.08.2015

hand cleaner scarves

Art.: 9081274

Toxicity to fish:	LL50	96h	>100 0	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to fish:	NOELR	28d	0,21	mg/l	Oncorhynchus mykiss	QSAR	
Toxicity to daphnia:	EL50	48h	>100 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to daphnia:	NOELR	21d	>=1	mg/l	Daphnia magna		
Toxicity to daphnia:	NOELR	21d	0,02	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	ErL50	72h	>100 0	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	EbL50	72h	>100 0	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	31	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Alcohol ethoxylate

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	3,2-3,6	mg/l	Pimephales promelas		
Toxicity to daphnia:	EC50	48h	7,3	mg/l	Daphnia magna		



Page 14 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 06.08.2015 / 0001
 Replacing version dated / version: 06.08.2015 / 0001
 Valid from: 06.08.2015
 PDF print date: 27.08.2015
 hand cleaner scarves
 Art.: 9081274

Persistence and degradability:		28d	>60	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
Bioaccumulative potential:	BCF		29				
Bioaccumulative potential:	Log Pow		2,72				
Toxicity to bacteria:	EC50	16h	>1000	mg/l			
Other information:	ThOD		2,1	g/g			

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	13299	mg/l	Daphnia magna		References
Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus		
Toxicity to algae:	EC50	72h	>1000	mg/l	Desmodesmus subspicatus		
Persistence and degradability:		21d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	
Bioaccumulative potential:	Log Pow		0,05			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	
Mobility in soil:	Koc		1,1				expert judgement
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		>1000	mg/l	activated sludge		
Toxicity to bacteria:	EC10	18h	5175	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	BOD5		53	%			



Page 15 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 06.08.2015 / 0001
 Replacing version dated / version: 06.08.2015 / 0001
 Valid from: 06.08.2015
 PDF print date: 27.08.2015
 hand cleaner scarves
 Art.: 9081274

Other information:	COD		96	%			References
Other information:	ThOD		2,4	g/g			
Water solubility:							Soluble

Propane-1,2-diol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	40613	mg/l	Oncorhynchus mykiss		
Toxicity to daphnia:	LC50	48h	18340	mg/l	Ceriodaphnia spec.		
Toxicity to algae:	EC50	48h	19000	mg/l	Skeletonema costatum		
Persistence and degradability:							Readily biodegradable

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. (2014/955/EU)

15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

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.

Recommended cleaner:

Water

If applicable

Cleaning product

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.

©

Page 16 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 06.08.2015 / 0001
Replacing version dated / version: 06.08.2015 / 0001
Valid from: 06.08.2015
PDF print date: 27.08.2015
hand cleaner scarves
Art.: 9081274

Packing group:	n.a.
Classification code:	n.a.
LQ (ADR 2015):	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 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:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 11,5 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: n.a.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.



Page 17 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 06.08.2015 / 0001
Replacing version dated / version: 06.08.2015 / 0001
Valid from: 06.08.2015
PDF print date: 27.08.2015
hand cleaner scarves
Art.: 9081274

H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Flam. Liq. — Flammable liquid
Asp. Tox. — Aspiration hazard
Skin Irrit. — Skin irritation
Skin Sens. — Skin sensitization
Aquatic Acute — Hazardous to the aquatic environment - acute
Aquatic Chronic — Hazardous to the aquatic environment - chronic
Acute Tox. — Acute toxicity - oral
Acute Tox. — Acute toxicity - inhalation
Eye Dam. — Serious eye damage
Eye Irrit. — Eye irritation
STOT SE — Specific target organ toxicity - single exposure - narcotic effects

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
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
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



Page 18 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 06.08.2015 / 0001
Replacing version dated / version: 06.08.2015 / 0001
Valid from: 06.08.2015
PDF print date: 27.08.2015
hand cleaner scarves
Art.: 9081274

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
HGWP Halocarbon Global Warming Potential
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
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



Page 19 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 06.08.2015 / 0001
Replacing version dated / version: 06.08.2015 / 0001
Valid from: 06.08.2015
PDF print date: 27.08.2015
hand cleaner scarves
Art.: 9081274

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)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
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)
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
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.