

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

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

1.1 Product identifier

Trade name	:	INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES
Product code	:	089090090

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

Use of the Sub- stance/Mixture	:	Cosmetic products
Recommended restrictions on use	:	This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

1.3 Details of the supplier of the safety data sheet

Company	:	Adolf Wuerth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau
Telephone	:	+49 794015 0
Telefax	:	+49 794015 10 00
E-mail address of person responsible for the SDS	:	prodsafe@wuerth.com

1.4 Emergency telephone number

Giftnotrufzentrale Berlin +49 30 30686 790. Gesellschaft (07:00 – 18:00 Uhr) +49 794015 2552

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1	H318: Causes serious eye damage.
--------------------------------	----------------------------------

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :
Prevention:
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

D-Glucopyranose, Oligomeric, C8-10 Glycosides
(R)-p-mentha-1,8-diene

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
---------------	-------------------	----------------	--------------------------

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version 7.2 Revision Date: 16.03.2017 SDS Number: 802836-00005 Date of last issue: 28.10.2016
Date of first issue: 11.06.2010

	Index-No. Registration number		
D-Glucopyranose, Oligomeric, C8-10 Glycosides	68515-73-1 500-220-1	Eye Dam. 1; H318	$\geq 1 - < 3$
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 601-029-00-7	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 1 - < 2,5$
Glucopyranose, oligomeric C10- 16 glycosides	110615-47-9	Skin Irrit. 2; H315 Eye Dam. 1; H318	$\geq 1 - < 3$
2-Bromo-2-nitro- 1,3-propanediol	52-51-7 200-143-0 603-085-00-8	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	$\geq 0,025 - < 0,1$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.
Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Follow safe handling advice and personal protective equip-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

ment recommendations.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not get on skin or clothing.
Avoid inhalation of vapour or mist.
Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice.
Keep container tightly closed.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Keep tightly closed.
Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents

Storage class (TRGS 510) : 12, Non Combustible Liquids

Recommended storage temperature : > 0 °C

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(R)-p-mentha-1,8-diene	5989-27-5	AGW	5 ppm 28 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
D-Glucopyranose, Oligomeric, C8-10 Glycosides	Workers	Inhalation	Long-term systemic effects	420 mg/m ³
	Workers	Skin contact	Long-term systemic effects	595000 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	124 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	357000 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	35,7 mg/kg bw/day
Glucopyranose, oligomeric C10-16 glycosides	Workers	Inhalation	Long-term systemic effects	420 mg/m ³

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version
7.2

Revision Date:
16.03.2017

SDS Number:
802836-00005

Date of last issue: 28.10.2016
Date of first issue: 11.06.2010

	Workers	Skin contact	Long-term systemic effects	595000 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	124 mg/m3
	Consumers	Skin contact	Long-term systemic effects	357000 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	35,7 mg/kg bw/day
(R)-p-mentha-1,8-diene	Workers	Inhalation	Long-term systemic effects	33,3 mg/m3
	Workers	Skin contact	Acute local effects	0,222 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	8,33 mg/m3
	Consumers	Skin contact	Acute local effects	0,111 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	4,76 mg/kg bw/day
Sorbitan laurate	Workers	Inhalation	Long-term systemic effects	49,4 mg/m3
	Workers	Skin contact	Long-term systemic effects	7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	12,2 mg/m3
	Consumers	Skin contact	Long-term systemic effects	3,5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,5 mg/kg bw/day
2-Bromo-2-nitro- 1,3-propanediol	Workers	Inhalation	Long-term systemic effects	4,1 mg/m3
	Workers	Inhalation	Acute systemic effects	12,3 mg/m3
	Workers	Inhalation	Long-term local effects	4,2 mg/m3
	Workers	Inhalation	Acute local effects	4,2 mg/m3
	Workers	Skin contact	Long-term systemic effects	2,3 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	7 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0,013 mg/kg bw/day
	Workers	Skin contact	Acute local effects	0,013 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Consumers	Inhalation	Acute systemic effects	3,7 mg/m3
	Consumers	Inhalation	Long-term local effects	1,3 mg/m3
	Consumers	Inhalation	Acute local effects	1,3 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1,4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	4,2 mg/kg bw/day

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version 7.2 Revision Date: 16.03.2017 SDS Number: 802836-00005 Date of last issue: 28.10.2016
Date of first issue: 11.06.2010

	Consumers	Skin contact	Long-term local effects	0,008 mg/kg bw/day
	Consumers	Skin contact	Acute local effects	0,008 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,35 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	1,1 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
D-Glucopyranose, Oligomeric, C8-10 Glycosides	Fresh water	0,176 mg/l
	Marine water	0,0176 mg/l
	Intermittent use/release	0,27 mg/l
	Fresh water sediment	1,516 mg/kg
	Sewage treatment plant	560 mg/l
	Marine sediment	0,152 mg/kg
	Soil	0,654 mg/kg
	Oral (Secondary Poisoning)	111,11 mg/kg food
Glucopyranose, oligomeric C10-16 glycosides	Fresh water	0,176 mg/l
	Marine water	0,018 mg/l
	Intermittent use/release	0,0295 mg/l
	Sewage treatment plant	5000 mg/l
	Fresh water sediment	1,516 mg/kg
	Marine sediment	0,065 mg/kg
	Soil	0,654 mg/kg
	Oral (Secondary Poisoning)	111,11 mg/kg food
(R)-p-mentha-1,8-diene	Fresh water	0,0054 mg/l
	Marine water	0,00054 mg/l
	Sewage treatment plant	1,8 mg/l
	Fresh water sediment	1,32 mg/kg
	Marine sediment	0,13 mg/kg
	Soil	0,262 mg/kg
	Oral (Secondary Poisoning)	3,33 mg/kg food
Sorbitan laurate	Fresh water	0,2 mg/l
	Marine water	0,02 mg/l
	Intermittent use/release	0,179 mg/l
	Fresh water sediment	1,141 mg/kg
	Marine sediment	1,141 mg/kg
2-Bromo-2-nitro- 1,3-propanediol	Fresh water	0,01 mg/l
	Marine water	0,0008 mg/l
	Intermittent use/release	0,0025 mg/l
	Sewage treatment plant	0,43 mg/l
	Fresh water sediment	0,041 mg/kg
	Marine sediment	0,00328 mg/kg
	Soil	0,5 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

- | | | |
|--------------------------|---|---|
| Eye protection | : | Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield |
| Hand protection | : | |
| Material | : | Chemical-resistant gloves |
| Remarks | : | Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Skin and body protection | : | Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). |
| Respiratory protection | : | Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. |
| Filter type | : | Organic vapour type (A) |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | | |
|------------------------------|---|---|
| Appearance | : | Liquid absorbed by inert carrier material |
| Colour | : | colourless |
| Odour | : | like fruit |
| Odour Threshold | : | No data available |
| pH | : | 7 - 7,5
concentrate |
| Melting point/freezing point | : | ca. 0 °C |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Initial boiling point and boiling range	:	> 100 °C
Flash point	:	Not applicable Other information: Will not burn
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	> 1 (Air = 1.0)
Relative density	:	No data available
Density	:	0,97 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	partly soluble
Solubility in other solvents	:	emulsifiable
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	< 20,5 mm ² /s (40 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size	:	Not applicable
Self-ignition	:	not auto-flammable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

(R)-p-mentha-1,8-diene:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on data from similar materials

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Glucopyranose, oligomeric C10-16 glycosides:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

2-Bromo-2-nitro- 1,3-propanediol:

Acute oral toxicity : LD50 (Rat): 193 - 211 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0,588 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

LC50 (Rat): > 0,12 - < 1,14 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : Acute toxicity estimate: 1.600 mg/kg
Method: Expert judgement
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Skin corrosion/irritation

Not classified based on available information.

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

(R)-p-mentha-1,8-diene:

Species: Rabbit
Result: Skin irritation

Glucopyranose, oligomeric C10-16 glycosides:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Skin irritation

2-Bromo-2-nitro- 1,3-propanediol:

Species: Rabbit
Result: Skin irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irreversible effects on the eye

Remarks: Based on data from similar materials

(R)-p-mentha-1,8-diene:

Species: Rabbit

Result: No eye irritation

Glucopyranose, oligomeric C10-16 glycosides:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irreversible effects on the eye

2-Bromo-2-nitro- 1,3-propanediol:

Species: Rabbit

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Method: Directive 67/548/EEC, Annex V, B.6.

Result: negative

(R)-p-mentha-1,8-diene:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Result: positive

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Glucopyranose, oligomeric C10-16 glycosides:

Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

2-Bromo-2-nitro- 1,3-propanediol:

Test Type: Maximisation Test
Exposure routes: Skin contact
Species: Guinea pig
Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

(R)-p-mentha-1,8-diene:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Transgenic rodent somatic cell gene mutation assay
Species: Rat
Application Route: Ingestion
Result: negative

Glucopyranose, oligomeric C10-16 glycosides:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Result: negative

2-Bromo-2-nitro- 1,3-propanediol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: inhalation (dust/mist/fume)
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

(R)-p-mentha-1,8-diene:

Species: Mouse
Application Route: Ingestion
Exposure time: 103 weeks
Result: negative

2-Bromo-2-nitro- 1,3-propanediol:

Species: Rat
Application Route: Ingestion
Exposure time: 104 w
Result: negative

Reproductive toxicity

Not classified based on available information.

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening
test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative
Remarks: Based on data from similar materials

Effects on foetal develop- : Test Type: Embryo-foetal development
ment
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Glucopyranose, oligomeric C10-16 glycosides:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

2-Bromo-2-nitro- 1,3-propanediol:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT - single exposure

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Species: Rat
NOAEL: 100 mg/kg
Application Route: Ingestion
Exposure time: 90 Days
Method: Directive 67/548/EEC, Annex, B.26
Remarks: Based on data from similar materials

(R)-p-mentha-1,8-diene:

Species: Rat

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

NOAEL: 600 mg/kg
Application Route: Ingestion
Exposure time: 13 Weeks

Glucopyranose, oligomeric C10-16 glycosides:

Species: Rat
NOAEL: 1.000 mg/kg
Application Route: Ingestion
Exposure time: 90 Days
Method: Directive 67/548/EEC, Annex, B.26

2-Bromo-2-nitro- 1,3-propanediol:

Species: Rat
NOAEL: < 20 mg/kg
LOAEL: 20 mg/kg
Application Route: Ingestion
Exposure time: 13 Weeks

Aspiration toxicity

Not classified based on available information.

Components:

(R)-p-mentha-1,8-diene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information

12.1 Toxicity

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 126 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 27,22 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 560 mg/l Exposure time: 6 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 1,8 mg/l Exposure time: 28 d Species: Danio rerio (zebra fish)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Method: OECD Test Guideline 204
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 1,76 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)
Remarks: Based on data from similar materials

(R)-p-mentha-1,8-diene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,72 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,36 mg/l
Exposure time: 48 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 150 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

Glucopyranose, oligomeric C10-16 glycosides:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2,95 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 12,5 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC0 (Pseudomonas putida): 5.000 mg/l
Exposure time: 16 h
Method: DIN 38 412 Part 8

Toxicity to fish (Chronic toxicity) : NOEC: 1,8 mg/l
Exposure time: 28 d
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 1,76 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

2-Bromo-2-nitro- 1,3-propanediol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 35,7 mg/l
Exposure time: 96 h

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,4 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Anabaena flos-aquae (cyanobacterium)): 0,068 mg/l Exposure time: 72 h NOEC (Anabaena flos-aquae (cyanobacterium)): 0,025 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	NOEC: 21,5 mg/l Exposure time: 49 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,06 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 28 d Method: OECD Test Guideline 301E
------------------	---	--

(R)-p-mentha-1,8-diene:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 80 % Exposure time: 28 d Remarks: Based on data from similar materials
------------------	---	--

Glucopyranose, oligomeric C10-16 glycosides:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 88 % Exposure time: 28 d Method: OECD Test Guideline 301D
------------------	---	---

2-Bromo-2-nitro- 1,3-propanediol:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 70 - 80 % Exposure time: 28 d Method: OECD Test Guideline 301B
------------------	---	--

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

12.3 Bioaccumulative potential

Components:

D-Glucopyranose, Oligomeric, C8-10 Glycosides:

Partition coefficient: n- : log Pow: 1,72
octanol/water

(R)-p-mentha-1,8-diene:

Partition coefficient: n- : log Pow: 4,38
octanol/water

2-Bromo-2-nitro- 1,3-propanediol:

Partition coefficient: n- : log Pow: 0,22
octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- | | |
|------------------------|---|
| Product | : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. |
| Contaminated packaging | : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product. |
| Waste Code | : The following Waste Codes are only suggestions:

used product
200000, MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

unused product
200000, MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

COLLECTED FRACTIONS

uncleaned packagings
150106, mixed packaging

Acc. Packaging Ordinance properly emptied packaging:
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

of dangerous chemicals

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class : WGK 1 slightly water endangering
(Germany) Classification according VwVwS, Annex 4.

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 1,80 %, 17 g/l
Remarks: VOC content excluding water

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of H-Statements

H226	: Flammable liquid and vapour.
H301	: Toxic if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H331	: Toxic if inhaled.
H335	: May cause respiratory 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.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW	: Time Weighted Average

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Classification of the mixture:

Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS mate-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



INDUSTRIAL STRENGTH CLEANING WIPES - 90 CLOTHES

Version	Revision Date:	SDS Number:	Date of last issue: 28.10.2016
7.2	16.03.2017	802836-00005	Date of first issue: 11.06.2010

Material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN