



Page 1 of 24
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 16.08.2018 / 0014
Replacing version dated / version: 28.05.2018 / 0013
Valid from: 16.08.2018
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PVC CLEANER S10 1000 ML
Art.: 9001375

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

PVC CLEANER S10 1000 ML
Art.: 9001375

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

Relevant identified uses of the substance or mixture:

Cleaning product
Solvents
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
Process category [PROC]:
PROC10 - Roller application or brushing

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
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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)

Hazard class	Hazard category	Hazard statement
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
Eye Irrit.	2	H319-Causes serious eye irritation.



Page 2 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

Skin Irrit.	2	H315-Causes skin irritation.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

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



Danger

H225-Highly flammable liquid and vapour. H319-Causes serious eye irritation. H315-Causes skin irritation. H304-May be fatal if swallowed and enters airways. H336-May cause drowsiness or dizziness. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243-Take action to prevent static discharges. P261-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area.

P301+P310+P331-IF SWALLOWED: Immediately call a POISON CENTER / doctor. Do NOT induce vomiting. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell. P403+P233-Store in a well-ventilated place. Keep container tightly closed. P405-Store locked up. P501-Dispose of contents / container safely.

Ethyl acetate

Naphtha (petroleum), hydrotreated light

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 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

®

Page 3 of 24
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 16.08.2018 / 0014
 Replacing version dated / version: 28.05.2018 / 0013
 Valid from: 16.08.2018
 PDF print date: 17.08.2018
 PVC CLEANER S10 1000 ML
 Art.: 9001375

Ethyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	607-022-00-5
EINECS, ELINCS, NLP	205-500-4
CAS	141-78-6
content %	70-90
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Naphtha (petroleum), hydrotreated light	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	649-328-00-1
EINECS, ELINCS, NLP	265-151-9
CAS	64742-49-0
content %	10-<20
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 Asp. Tox. 1, H304 STOT SE 3, H336

ethanol, 2,2'-iminobis-, N-coco alkyl derivative	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	263-163-9
CAS	61791-31-9
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Skin Corr. 1, H314 Eye Dam. 1, H318

n-Hexane	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	601-037-00-0
EINECS, ELINCS, NLP	203-777-6
CAS	110-54-3
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411

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



Page 4 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 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.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

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

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

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

Protect uninjured eye.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.2 Most important symptoms and effects, both acute and delayed

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

The following may occur:

Product removes fat.

Dermatitis (skin inflammation)

Ingestion:

Danger of aspiration

Lung damage

Oedema of the lungs

Inhalation:

Irritation of the respiratory tract

Dizziness

Headaches

Effects/damages the central nervous system

Unconsciousness

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

Indications for the physician:

Ingestion:



Page 5 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

Do not feed fats, oils or milk.

Activated carbon

Gastric lavage (stomach washing) only under endotracheal intubation.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinction powder

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of nitrogen

Oxides of carbon

Hydrocarbons

Toxic pyrolysis products.

Explosive vapour/air or gas/air mixtures.

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.3 Advice for firefighters

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

Prevent from entering drainage system.

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

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

Ensure sufficient supply of air.

6.4 Reference to other sections



Page 6 of 24
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 16.08.2018 / 0014
 Replacing version dated / version: 28.05.2018 / 0013
 Valid from: 16.08.2018
 PDF print date: 17.08.2018
 PVC CLEANER S10 1000 ML
 Art.: 9001375

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

Avoid aerosol formation.
 Avoid inhalation of the vapours.
 Ensure good ventilation.
 If applicable, suction measures at the workstation or on the processing machine necessary.
 Keep away from sources of ignition - Do not smoke.
 Take precautions against electrostatic charges.
 Use explosion-proof equipment.
 Avoid contact with eyes or skin.
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
 Observe directions on label and instructions for use.
 Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
 Store product closed and only in original packing.
 Not to be stored in gangways or stair wells.
 Solvent resistant floor
 Do not store with flammable or self-igniting materials.
 Observe special storage conditions.
 Store cool.
 Protect from direct sunlight and warming.
 Store in a well ventilated place.
 Store in a dry place.

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):
 800 mg/m³

Globe icon	Chemical Name	Ethyl acetate	Content %:70-90
	WEL-TWA: 200 ppm (WEL-TWA), 200 ppm (734 mg/m ³) (EU)	WEL-STEL: 400 ppm (WEL-STEL), 400 ppm (1468 mg/m ³) (EU)	---



Page 7 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375


Monitoring procedures:	<ul style="list-style-type: none"> - Compur - KITA-111 SA (549 160) - Compur - KITA-111 U(C) (549 178) - Draeger - Ethyl Acetate 200/a (CH 20 201) DFG (D) (Loesungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1998, 2002 DFG (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 1998, 2002 DFG (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 1998, 2002 DFG (D) (Loesungsmittelgemische 5), DFG (E) (Solvent mixtures 5) - 1998, 2002
------------------------	---

BMGV: ---	Other information: ---
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Chemical Name	Naphtha (petroleum), hydrotreated light		Content %:10-<20
WEL-TWA: 800 mg/m ³	WEL-STEL: ---	---	
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: (WEL acc. to RCP-method, EH40)		

Chemical Name	n-Hexane		Content %:0,1-<1
WEL-TWA: 20 ppm (72 mg/m ³) (WEL, EU)	WEL-STEL: ---	---	
Monitoring procedures:	<ul style="list-style-type: none"> - Compur - KITA-113 SA (549 350) - Compur - KITA-113 SB (549 368) - Compur - KITA-113 SC (503 787) - Draeger - Hexane 100/a (67 28 391) MTA/MA-029/A92 (Determination of aliphatic hydrocarbons (n-hexane, n-heptane, n-octane, n-nonane) in air) - 1992 - EU project - BC/CEN/ENTR/000/2002-16 card 26-1 (2004) DFG Meth. Nr. 1 (D) (Loesungsmittelgemische), DFG (E) (Solvent mixtures 1) - 1998, 2002 		
BMGV: ---	Other information: ---		

Chemical Name	Naphtha (petroleum), hydrotreated light		Content %:
WEL-TWA: 1800 mg/m ³ (iso-hexane)	WEL-STEL: ---	---	
Monitoring procedures:	- Compur - KITA-187 S (551 174)		
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). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | 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.



Page 8 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

8.2 Exposure controls

Ethyl acetate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,26	mg/l	
	Environment - marine		PNEC	0,026	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,65	mg/l	
	Environment - sediment, freshwater		PNEC	0,34	mg/kg	
	Environment - sediment, marine		PNEC	0,125	mg/kg	
	Environment - soil		PNEC	0,22	mg/kg	
	Environment - sewage treatment plant		PNEC	650	mg/l	
	Environment - oral (animal feed)		PNEC	200	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,5	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	37	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	367	mg/m ³	
Consumer	Human - inhalation	Long term, local effects	DNEL	367	mg/m ³	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	734	mg/m ³	
Consumer	Human - inhalation	Short term, local effects	DNEL	734	mg/m ³	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	63	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	734	mg/m ³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	734	mg/m ³	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	1468	mg/m ³	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1468	mg/m ³	

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.



Page 9 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374)

Protective gloves in butyl rubber (EN 374).

Minimum layer thickness in mm:

$\geq 0,7$

Permeation time (penetration time) in minutes:

120 - 240

Protective hand cream recommended.

Unsuitable material:

Cotton gloves

Leather gloves

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

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.



Page 10 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

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

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

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

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

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Aromatic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	76 °C
Flash point:	-1 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	0,7 Vol-%
Upper explosive limit:	11,5 Vol-%
Vapour pressure:	100 hPa (20°C)
Vapour density (air = 1):	Vapours heavier than air.
Density:	0,9 g/cm ³ (20°C)
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Not miscible
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	245 °C
Decomposition temperature:	Not determined
Viscosity:	10 mPas (20°C)
Viscosity:	<7 mm ² /s (40°C)
Explosive properties:	Possible build up of explosive/highly flammable vapour/air mixture. Product is not explosive.
Oxidising properties:	Not determined

9.2 Other information

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

SECTION 10: Stability and reactivity



Page 11 of 24
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 16.08.2018 / 0014
 Replacing version dated / version: 28.05.2018 / 0013
 Valid from: 16.08.2018
 PDF print date: 17.08.2018
 PVC CLEANER S10 1000 ML
 Art.: 9001375

10.1 Reactivity

See also Subsection 10.2 to 10.6.
 The product has not been tested.

10.2 Chemical stability

See also Subsection 10.1 to 10.6.
 Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.
 No decomposition if used as intended.

10.4 Conditions to avoid

See also section 7.
 Heating, open flame, ignition sources

10.5 Incompatible materials

See also section 7.
 Avoid contact with strong oxidizing agents.
 Avoid contact with strong alkalis.
 Avoid contact with strong acids.

10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.
 See also section 5.2
 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).

PVC CLEANER S10 1000 ML Art.: 9001375						
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.

®

Page 12 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

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.

Ethyl acetate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4934	mg/kg	Rabbit	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>20000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC0	29,3	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:		24	h	Rabbit		Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Aspiration hazard:						No

®

Page 13 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

Symptoms:						lack of appetite, breathing difficulties, drowsiness, unconsciousness, drop in blood pressure, cornea opacity, coughing, headaches, gastrointestinal disturbances, intoxication, drowsiness, mucous membrane irritation, dizziness, salivation, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg bw/d	Rat	Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS))	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,002	mg/kg	Rat	Regulation (EC) 440/2008 B.29 (SUB-CHRONIC INHALATION TOXICITY STUDY 90-DAY REPEATED (RODENTS))	

Naphtha (petroleum), hydrotreated light						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h	Rat		

®

Page 14 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

Skin corrosion/irritation:						Irritant
Aspiration hazard:						Yes
Symptoms:						drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.

ethanol, 2,2'-iminobis-, N-coco alkyl derivative

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	500-2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit		Corrosive
Serious eye damage/irritation:				Rabbit		Corrosive
Symptoms:						mucous membrane irritation

n-Hexane

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	25000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	171,6	mg/l/h	Rat		
Aspiration hazard:						Yes

®

Page 16 of 24
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 16.08.2018 / 0014
 Replacing version dated / version: 28.05.2018 / 0013
 Valid from: 16.08.2018
 PDF print date: 17.08.2018
 PVC CLEANER S10 1000 ML
 Art.: 9001375

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



Page 17 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

Other information:	DOC						DOC-elimination degree (complexing organic substance) \geq 80%/28d: n.a.
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Ethyl acetate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	32d	>9,65	mg/l	Pimephales promelas		
12.1. Toxicity to fish:	LC50	96h	230	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	610	mg/l	Daphnia magna	DIN 38412 T.11	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	2,4	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	165	mg/l			Daphnia cucullata
12.1. Toxicity to algae:	EC50	48h	5600	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	
12.1. Toxicity to algae:	NOEC/NOEL	96h	2000	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	>2000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		20d	79	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF	72h	30				(Fish)



Page 18 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

12.3. Bioaccumulative potential:	Log Kow		0,6			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	Bioaccumulation is unlikely (LogPow < 1).
12.4. Mobility in soil:	H (Henry)		0,00012	atm*m ³ /mol			
12.4. Mobility in soil:	Koc		3				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	16h	2900	mg/l	Escherichia coli		
Toxicity to bacteria:	EC50	15min	5870	mg/l	Photobacterium phosphoreum		

Naphtha (petroleum), hydrotreated light							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50		1-10	mg/l			
12.1. Toxicity to algae:	LC50		1-10	mg/l			
Water solubility:			100	mg/l			20°C

ethanol, 2,2'-iminobis-, N-coco alkyl derivative							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,1-1,0	mg/l	Leuciscus idus		
12.2. Persistence and degradability:			35-70	%		OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMP A Test)	
Toxicity to bacteria:	EC50		41,5	mg/l		OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	DOC		500	mg/g			
Other information:	COD		2350	mg/g			

n-Hexane



Page 19 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,5	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	2,1	mg/l			
12.3. Bioaccumulative potential:							Not to be expected

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)

07 01 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures

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.

Residues may present a risk of explosion.

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

General statements

14.1. UN number: 1993

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE,NAPHTHA (PETROLEUM))

14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Classification code:

F1

LQ:

1 L

14.5. Environmental hazards:

Not applicable

Tunnel restriction code:

D/E

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE,NAPHTHA (PETROLEUM))





Page 20 of 24
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 16.08.2018 / 0014
 Replacing version dated / version: 28.05.2018 / 0013
 Valid from: 16.08.2018
 PDF print date: 17.08.2018
 PVC CLEANER S10 1000 ML
 Art.: 9001375

14.3. Transport hazard class(es): 3
 14.4. Packing group: II
 EmS: F-E, S-E
 Marine Pollutant: n.a
 14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:
 Flammable liquid, n.o.s. (ETHYL ACETATE,NAPHTHA (PETROLEUM))
 14.3. Transport hazard class(es): 3
 14.4. Packing group: II
 14.5. Environmental hazards: Not applicable



14.6. 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.

14.7. Transport in bulk according to Annex II of MARPOL 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.
 Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P5c		5000	50000

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): 99,5 %
REGULATION (EC) No 648/2004
 15 % or over but less than 30 %
 aliphatic hydrocarbons
 less than 5 %
 non-ionic surfactants



Page 21 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

8

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Flam. Liq. 2, H225	Classification based on test data.
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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).

H361f Suspected of damaging fertility.

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

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.

Flam. Liq. — Flammable liquid

Eye Irrit. — Eye irritation

Skin Irrit. — Skin irritation

Asp. Tox. — Aspiration hazard

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - oral

Aquatic Acute — Hazardous to the aquatic environment - acute

Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage

Repr. — Reproductive toxicity

STOT RE — Specific target organ toxicity - repeated exposure



Page 22 of 24
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 16.08.2018 / 0014
Replacing version dated / version: 28.05.2018 / 0013
Valid from: 16.08.2018
PDF print date: 17.08.2018
PVC CLEANER S10 1000 ML
Art.: 9001375

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
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)



Page 23 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

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
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



Page 24 of 24

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

Revision date / version: 16.08.2018 / 0014

Replacing version dated / version: 28.05.2018 / 0013

Valid from: 16.08.2018

PDF print date: 17.08.2018

PVC CLEANER S10 1000 ML

Art.: 9001375

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.