

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Harmony in
Chemistry

Trade name : Smartrens / Smartrens XL (000021789)
purge thinner

Revision date : 16.11.2018

Version (Revision) : 10.2.0 (10.1.0)

Print date : 19.11.2018

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

1.1 Product identifier

Smartrens / Smartrens XL

purge thinner

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

Relevant identified uses

Product Categories [PC]

PC9a - Coatings and paints, thinners, paint removers

PC0.56 - Solvent

1.3 Details of the supplier of the safety data sheet

Supplier : ABV AS

Street : Haslevollen 3 b

Postal code/city : 0579 Oslo, Norway

Telephone : +47 47 92 16 50

Telefax :

Information contact : post@abv.no

1.4 Emergency telephone number

Giftinformasjonen: +47 22 59 13 00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

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P370+P378 In case of fire: Use foam (alcohol resistant), carbon dioxide, dry powder or water spray for extinction.

P501 Dispose of contents/container according to local regulations

Additional information

P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

ORGANIC SOLVENTS

3.2 Mixtures

Hazardous ingredients

ETHANOL ; REACH registration No. : 01-2119457610-43 ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction : $\geq 75 - < 100 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

BUTANONE ; REACH registration No. : 01-2119457290-43 ; EC No. : 201-159-0; CAS No. : 78-93-3

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

None

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH

None

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect).

4.2 Most important symptoms and effects, both acute and delayed

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Dizziness Headache Impairment of vision Nausea Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂) Extinguishing powder Water spray

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13 National regulations see section 15.

SECTION 7: Handling and storage



7.1 Precautions for safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Only use the material in places where open light, fire and other flammable sources can be kept away.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists
Take precautionary measures against static discharges.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Usual measures for fire prevention. Vapours are heavier than air,

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spread along floors and form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools. Wear anti-static footwear and clothing. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin. Use only in well-ventilated areas.

Environmental precautions

Shafts and sewers must be protected from entry of the product.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Cleaning with high pressure washers : For each use event, avoid using a product amount greater than 25%.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 500 ppm / 960 mg/m³

Peak limitation : 2(II)

Remark : Y

Version : 01.03.2018

BUTANONE ; CAS No. : 78-93-3

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 200 ppm / 600 mg/m³

Peak limitation : 1(I)

Remark : H, Y

Version : 01.03.2018

Limit value type (country of origin) : STEL (EC)

Limit value : 300 ppm / 900 mg/m³

Version : 31.01.2018

Limit value type (country of origin) : TWA (EC)

Limit value : 200 ppm / 600 mg/m³

Version : 31.01.2018

Biological limit values

BUTANONE ; CAS No. : 78-93-3

Limit value type (country of origin) : TRGS 903 (D)

Parameter : 2-Butanone / Urine (U) / End of exposure or end of shift

Limit value : 2 mg/l

Version : 01.03.2018

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (local) (ETHANOL ; CAS No. : 64-17-5)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 950 mg/kg

Limit value type : DNEL Consumer (systemic) (ETHANOL ; CAS No. : 64-17-5)

Exposure route : Dermal

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Exposure frequency :	Long-term
Limit value :	206 mg/kg
Limit value type :	DNEL Consumer (systemic) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	114 mg/m ³
Limit value type :	DNEL Consumer (systemic) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	87 mg/kg
Limit value type :	DNEL worker (local) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	1900 mg/m ³
Limit value type :	DNEL worker (systemic) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	343 mg/kg
Limit value type :	DNEL worker (systemic) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	950 mg/m ³
Limit value type :	DNEL Consumer (systemic) (BUTANONE ; CAS No. : 78-93-3)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	31 mg/kg
Limit value type :	DNEL Consumer (systemic) (BUTANONE ; CAS No. : 78-93-3)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	412 mg/kg
Limit value type :	DNEL Consumer (systemic) (BUTANONE ; CAS No. : 78-93-3)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	106 mg/m ³
Limit value type :	DNEL worker (systemic) (BUTANONE ; CAS No. : 78-93-3)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	1161 mg/kg
Limit value type :	DNEL worker (systemic) (BUTANONE ; CAS No. : 78-93-3)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	600 mg/m ³
PNEC	
Limit value type :	PNEC (Aquatic, freshwater) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	0,96 mg/l
Limit value type :	PNEC (Aquatic, marine water) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	0,79 mg/l
Limit value type :	PNEC (Sediment, freshwater) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	3,6 mg/kg
Limit value type :	PNEC (Sediment, marine water) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	2,9 mg/kg
Limit value type :	PNEC (Soil) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	0,63 mg/kg
Limit value type :	PNEC (Secondary poisoning) (ETHANOL ; CAS No. : 64-17-5)

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Limit value :	0,72 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	580 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (BUTANONE ; CAS No. : 78-93-3)
Limit value :	55,8 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) (BUTANONE ; CAS No. : 78-93-3)
Limit value :	55,8 mg/l
Limit value type :	PNEC (Aquatic, marine water) (BUTANONE ; CAS No. : 78-93-3)
Limit value :	55,8 mg/l
Limit value type :	PNEC (Sediment, freshwater) (BUTANONE ; CAS No. : 78-93-3)
Limit value :	284,74 mg/kg
Limit value type :	PNEC (Sediment, marine water) (BUTANONE ; CAS No. : 78-93-3)
Limit value :	287,7 mg/kg
Limit value type :	PNEC (Soil) (BUTANONE ; CAS No. : 78-93-3)
Limit value :	22,5 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (BUTANONE ; CAS No. : 78-93-3)
Limit value :	709 mg/l

8.2 Exposure controls



Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : Butyl caoutchouc (butyl rubber)

Breakthrough time : >= 480 min

Thickness of the glove material : 0,5 mm

Recommended glove articles : EN ISO 374

Additional hand protection measures : Check leak tightness/impermeability prior to use. Do not wear gloves near rotary machines and tools. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Remark : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

lab coat Overall

Suitable protective clothing : For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes Only wear fitting, comfortable and clean protective clothing.

Required properties : antistatic. flame-resistant heat-resistant

Recommended material : Natural fibres (e.g. cotton) heat-resistant synthetic fibres

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values / aerosol or mist formation.

Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter : A

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General health and safety measures

Wash hands before breaks and after work. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : Alcohol

Safety relevant basis data

Melting point/melting range :		approx.	-118,0	°C
Initial boiling point and boiling range :	(1013 hPa)		78,0 - 79,0	°C
Decomposition temperature :			No data available	
Flash point :			12,0	°C
Ignition temperature :			425,0	°C
Oxidising liquids :			No data available.	
Lower explosion limit :			3,3	Vol-%
Upper explosion limit :			15,0	Vol-%
Explosive properties :			No data available.	
Vapour pressure 20°C):	(20 °C)		60,0	hPa
Density :	(20 °C)	approx.	0,789	g/cm ³
Water solubility :	(20 °C)		miscible	
pH-value:	(20 °C / conc.)		not applicable	
log P O/W :			-0,35	
Cinematic viscosity :	(40 °C)	<	20,5	mm ² /s
Odour threshold :			No data available	
Relative vapour density :	(20 °C)		1,0	(air = 1)
Vapourisation rate :			No data available	(Ether = 1)
Maximum VOC content (EC) :	(20 °C)		100,0	Wt % gem. RL 1999/13/EG
Max. VOC content (Decopaint):	(20 °C)		100,0	Wt % gem. RL 2004/42/EG

9.2 Other information

no more data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

Formation of explosive mixtures with: Air. possible

10.4 Conditions to avoid

Heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

Alkali (lye), concentrated. Acid, concentrated. Oxidising agent, strong.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Based on available data, the classification criteria are not met.

Acute oral toxicity

Parameter : LD50 (ETHANOL ; CAS No. : 64-17-5)

Exposure route : Oral

Species : Rat

Effective dose : > 2000 mg/kg

Method : OECD 401

Parameter : LD50 (BUTANONE ; CAS No. : 78-93-3)

Exposure route : Oral

Species : Rat

Effective dose : > 2193 mg/kg

Method : OECD 423

Acute dermal toxicity

Parameter : LD50 (ETHANOL ; CAS No. : 64-17-5)

Exposure route : Dermal

Species : Rabbit

Effective dose : > 2000 mg/kg

Method : OECD 402

Parameter : LD50 (BUTANONE ; CAS No. : 78-93-3)

Exposure route : Dermal

Species : Rabbit

Effective dose : > 2000 mg/kg

Method : OECD 402

Acute inhalation toxicity

Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)

Exposure route : Inhalation

Species : Mouse

Effective dose : > 20 mg/l

Exposure time : 4 h

Parameter : LC50 (BUTANONE ; CAS No. : 78-93-3)

Exposure route : Inhalation

Species : Rat

Effective dose : 34 mg/l

Exposure time : 4 h

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Primary irritation to the skin (ETHANOL ; CAS No. : 64-17-5)

Species : Rabbit

Result : Not irritant

Method : OECD 404

Based on available data, the classification criteria are not met.

Irritation to eyes

Parameter : Irritation to eyes (ETHANOL ; CAS No. : 64-17-5)

Species : Rabbit

Result : irritant

Method : OECD 405

Causes serious eye irritation.

Sensitisation

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Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

There are no data available on the preparation/mixture itself.

11.4 Other adverse effects

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Has degreasing effect on the skin.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Based on available data, the classification criteria are not met.

Acute (short-term) fish toxicity

Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)

Species : Leuciscus idus (golden orfe)

Effective dose : > 100 mg/l

Exposure time : 48 h

Method : OECD 203

Parameter : LC50 (BUTANONE ; CAS No. : 78-93-3)

Species : Pimephales promelas (fathead minnow)

Effective dose : 2990 mg/l

Exposure time : 96 h

Method : OECD 203

Acute (short-term) daphnia toxicity

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)

Species : Daphnia magna (Big water flea)

Effective dose : > 100 mg/l

Exposure time : 24 h

Method : OECD 202

Parameter : EC50 (BUTANONE ; CAS No. : 78-93-3)

Species : Daphnia magna (Big water flea)

Effective dose : 308 mg/l

Exposure time : 48 h

Method : OECD 202

Acute (short-term) algae toxicity

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Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)

Species : Chlorella pyrenoidosa

Effective dose : > 100 mg/l

Method : OECD 201

Parameter : EC50 (BUTANONE ; CAS No. : 78-93-3)

Species : Pseudokirchneriella subcapitata

Effective dose : 1972 mg/l

Exposure time : 72 h

Method : OECD 201

Bacteria toxicity

Parameter : EC0 (BUTANONE ; CAS No. : 78-93-3)

Species : Pseudomonas putida

Effective dose : 1150 mg/l

Exposure time : 16 h

Method : DIN 38412 / part 8

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (ETHANOL ; CAS No. : 64-17-5)

Inoculum : Degree of elimination

Evaluation parameter : Aerobic

Effective dose : > 70 %

Exposure time : 5 d

Evaluation : Readily biodegradable (according to OECD criteria).

Method : OECD 301D

Parameter : Biodegradation (BUTANONE ; CAS No. : 78-93-3)

Inoculum : Degree of elimination

Effective dose : 98 %

Exposure time : 28 d

Evaluation : Readily biodegradable (according to OECD criteria).

Method : OECD 301D

12.3 Bioaccumulative potential

Parameter : Log KOC (ETHANOL ; CAS No. : 64-17-5)

Value : -0,35

Evaluation : niedriges Bioakkumulationspotential

Parameter : Log KOC (BUTANONE ; CAS No. : 78-93-3)

Value : 0,29

Evaluation : niedriges Bioakkumulationspotential

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

Dispose according to legislation.

13.1 Waste treatment methods

Product/Packaging disposal

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Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code (EWC/AVV) : 07 01 04*

13.2 Additional information

None

SECTION 14: Transport information

14.1 UN number

UN 1170

14.2 UN proper shipping name

Land transport (ADR/RID)

ETHANOL, SOLUTION

Sea transport (IMDG)

ETHANOL, SOLUTION

Air transport (ICAO-TI / IATA-DGR)

ETHANOL, SOLUTION

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 33
Tunnel restriction code : D/E
Special provisions : LQ 1 | · E 2
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-D
Special provisions : LQ 1 | · E 2
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 2
Hazard label(s) : 3

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

according to Regulation (EC) 1907/2006

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National regulations

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

Percentage of carcinogenic substances WGK 3 : - 0 %

Percentage of carcinogenic substances WGK 2 : - 0 %

Percentage of carcinogenic substances : - 0 %

Percentage of substances WGK 3 : - 0 %

Percentage of substances WGK 3 with M-Factor : - 0 %

Percentage of substances WGK 3 (nwg) : - 0 %

Percentage of substances WGK 2 : - 0 %

Percentage of substances WGK 2 with M-Factor : - 0 %

Percentage of substances WGK 1 : + 100 %

Percentage of substances non-hazardous to water (nwg) : 0 %

Percentage of substances unidentified : - 0 %

Percentage of substances unidentified (nwg) : - 0 %

Percentage of floating liquids : 0 %

15.2 Chemical safety assessment

No information available.

15.3 Additional information

None

SECTION 16: Other information

16.1 Indication of changes

15. Restrictions on use · 15. Water hazard class (WGK)

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road

(Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)

BCF: Bio-Concentration Factor

BOD(5): Biochemical oxygen demand (within 5 days)

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic, toxic for Reproduction

DIN: German Standards Institute / German industrial norm

DNEL: Derived No Effect Level

DOC: Dissolved organic carbon

EAK/ AVV: European waste catalogue/ waste directory-regulation

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IC50: Inhibition Concentration 50%

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal Concentration 50% - LD50: Lethal dose 50%

MAK: Treshold limit values Germany

NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OECD: Organization for Economic Cooperation and Development

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)



Harmony in
Chemistry

Trade name : Smartrens / Smartrens XL (000021789)
purge thinner

Revision date : 16.11.2018

Version (Revision) : 10.2.0 (10.1.0)

Print date : 19.11.2018

PBT: persistent, bioaccumulative, toxic
PC: Product category
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation and Authorization of Chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
STP: Sewage treatment plant
SVHC: Substance of Very High Concern
TLV: Threshold Limit Value
TWA: Time Weighted Average
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent, very bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

16.5 Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
