

Article No.:	26229	PREGAN 235 Spray 500 ML SD	
Print date	02.09.2020	Revision date 11.08.2020	EN
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Article No. (manufacturer/supplier): 26229
Trade name/designation PREGAN 235 Spray 500 ML SD

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

Relevant identified uses

Cleaner / Thinner. Aerosol.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Kissel + Wolf GmbH
In den Ziegelwiesen 6 Telephone: 49 6222 578-0
69168 Wiesloch Telefax: 49 6222 578-100
Germany E-mail: info@kiwo.de

Department responsible for information:

RA - Regulatory Affairs
E-mail ra@kiwo.de

1.4. Emergency telephone number

Emergency telephone number +49 6222 578 219

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Aerosol 1 / H222	Aerosol	Extremely flammable aerosol.
Aerosol 1 / H229	Aerosol	Pressurised container: May burst if heated.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms



Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents / container in accordance with local / national regulations.
P102	Keep out of reach of children.

Hazard components for labelling

hydrocarbons, C9, aromatics

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

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2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description Mixture of components, as listed below, with nonhazardous constituents

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Designation classification: // Remark	weight-%
203-448-7 106-97-8 601-004-00-0	butane Flam. Gas 1 H220 / Press. Gas	25 - 35
918-668-5 64742-95-6	01-2119455851-35 hydrocarbons, C9, aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411	20 - 25
203-603-9 108-65-6 607-195-00-7	01-2119475791-29 2-methoxy-1-methylethyl acetate Flam. Liq. 3 H226	12,5 - 15
200-827-9 74-98-6 601-003-00-5	propane Flam. Gas 1 H220 / Press. Gas	10 - 12,5
203-620-1 108-83-8 606-005-00-X	01-2119474441-41 2,6-dimethylheptan-4-one Flam. Liq. 3 H226 / STOT SE 3 H335 Specific concentration limit (SCL): STOT SE 3 H335 >= 10	10 - 12,5
200-857-2 75-28-5 601-004-00-0	isobutane Flam. Gas 1 H220 / Press. Gas	8 - 10

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Seek medical advice immediately. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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Carbon dioxide Water mist Foam

Unsuitable extinguishing media

strong water jet

5.2. **Special hazards arising from the substance or mixture**

Heating causes rise in pressure with risk of bursting. Gases/vapours, toxic

5.3. **Advice for firefighters**

Provide a conveniently located respiratory protective device.

Additional information

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Remove persons to safety. Do not breathe vapours.

6.2. **Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Provide good ventilation.

6.3. **Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

6.4. **Reference to other sections**

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away.

Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Do not open with force, even when empty. Technische Regeln Druckbehälter (TRB), Technische Regeln Druckgase (TRG): 300

Avoid contact with eyes and skin. Do not inhale vapours or mist. Do not eat, drink or smoke when using this product. Personal protection equipment: refer to section 8.

7.2. **Conditions for safe storage, including any incompatibilities**

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Protect from sunlight. Store in a well-ventilated place.

Hints on joint storage

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

Further information

VCI-storage class, see Chapter 15

7.3. **Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Occupational exposure limit values

butane

INDEX No. 601-004-00-0 / EC No. 203-448-7 / CAS No. 106-97-8

TRGS 900, AGW, TWA: 2400 mg/m³; 1000 ppm

TRGS 900, AGW, STEL: 9600 mg/m³; 4000 ppm

2-methoxy-1-methylethyl acetate

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INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

TRGS 900, AGW, TWA: 270 mg/m³; 50 ppm

TRGS 900, AGW, STEL: 270 mg/m³; 50 ppm

propane

INDEX No. 601-003-00-5 / EC No. 200-827-9 / CAS No. 74-98-6

TRGS 900, AGW, TWA: 1800 mg/m³; 1000 ppm

TRGS 900, AGW, STEL: 7200 mg/m³; 4000 ppm

isobutane

INDEX No. 601-004-00-0 / EC No. 200-857-2 / CAS No. 75-28-5

TRGS 900, AGW, TWA: 2400 mg/m³; 1000 ppm

TRGS 900, AGW, STEL: 9600 mg/m³; 4000 ppm

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

2,6-dimethylheptan-4-one

INDEX No. 606-005-00-X / EC No. 203-620-1 / CAS No. 108-83-8

DNEL long-term dermal (systemic), Workers: 80 mg/kg

DNEL acute inhalative (local), Workers: 290 mg/m³

DNEL acute inhalative (systemic), Workers: 290 mg/m³

DNEL long-term inhalative (local), Workers: 290 mg/m³

DNEL long-term inhalative (systemic), Workers: 479 mg/m³

2-methoxy-1-methylethyl acetate

INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

DNEL long-term dermal (systemic), Workers: 153,5 mg/kg

DNEL long-term inhalative (systemic), Workers: 275 mg/m³

hydrocarbons, C9, aromatics

EC No. 918-668-5 / CAS No. 64742-95-6

DNEL long-term dermal (systemic), Workers: 25 mg/kg

DNEL long-term inhalative (systemic), Workers: 150 mg/m³

PNEC:

2,6-dimethylheptan-4-one

INDEX No. 606-005-00-X / EC No. 203-620-1 / CAS No. 108-83-8

PNEC aquatic, freshwater: 0,03 mg/L

PNEC aquatic, marine water: 0,003 mg/L

PNEC aquatic, intermittent release: 0,3 mg/L

PNEC sediment, freshwater: 0,46 mg/kg

PNEC sediment, marine water: 0,046 mg/kg

PNEC, soil: 0,0746 mg/kg

2-methoxy-1-methylethyl acetate

INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

PNEC aquatic, freshwater: 0,635 mg/L

PNEC aquatic, marine water: 0,0635 mg/L

PNEC sediment, freshwater: 3,29 mg/kg

PNEC sediment, marine water: 0,329 mg/kg

PNEC, soil: 0,29 mg/kg

PNEC sewage treatment plant (STP): 100 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

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Hand protection

Chemical resistant protective gloves: EN ISO 374
Recommendation for contact by spatter: Protection Index 2
Permeation time >30 min., e.g. butyl rubber 0,4 mm
Recommendation for direct contact: Protection Index 6
Permeation time >480 min., e.g. nitrile rubber 0,4 mm

Eye/face protection

Wear closed protection glasses. DIN EN 166

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: gaseous
Colour: depending on coloration

Odour: typical

Odour threshold: not applicable

pH at 20 °C: not applicable

Melting point/freezing point: not applicable

Initial boiling point and boiling range: -42 °C
Source: propane

Flash point: -60 °C
Method: DIN 53213

Evaporation rate: not applicable

flammability

Burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 1,4 Vol-%
Source: hydrocarbons, C9, aromatics
Upper explosion limit: 32 Vol-%
Source: 2-methoxy-1-methylethyl acetate

Vapour pressure at 20 °C: 2,8594 mbar

Vapour density: not applicable

Relative density:

Density at 20 °C: 0,69 g/cm³

Solubility(ies):

Water solubility (g/L) at 20 °C: insoluble

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 510 °C

Source: 2-methoxy-1-methylethyl acetate

Decomposition temperature: not applicable

Viscosity at °C: na

Decomposition temperature (°C): 0

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

Solid content (%): 0,04 weight-%

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solvent content:

Organic solvents:

100 weight-%

Water:

0 weight-%

Solvent separation test (%):

< 3 weight-% (ADR/RID)

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

2-methoxy-1-methylethyl acetate

oral, LD50, Rat: 8532 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (vapours), LC50, Rat: 35,7 mg/L (4 h)

inhalative (vapours), LC50, Rat: > 23,8 ppm (6 h)

hydrocarbons, C9, aromatics

oral, LD50, Rat: 3592 mg/kg

dermal, LD50, Rabbit: > 3160 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Aspiration hazard

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

Practical experience/human evidence

Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc.. In case of inhalation dizziness, Nausea Inhalation causes narcotic effects/intoxication. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

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The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not store at public landfills.

12.1. Toxicity

2-methoxy-1-methylethyl acetate

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 134 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 500 mg/L (48 h)

hydrocarbons, C9, aromatics

Fish toxicity, LC50 1 - 10 mg/L (96 h)

Daphnia toxicity, EC50 1 - 10 mg/L (48 h)

Algae toxicity, ErC50 1 - 10 mg/L

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

hydrocarbons, C9, aromatics

Fish toxicity, NOEC 0,1 - 1 mg/L

Daphnia toxicity, NOEC 0,1 - 1 mg/L

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

**Appropriate disposal / Product
Recommendation**

List of proposed waste codes/waste designations in accordance with EWC

070704* other organic solvents, washing liquids and mother liquors

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package
Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number

UN 1950

14.2. UN proper shipping name

Land transport (ADR/RID):

Aerosols, flammable

Sea transport (IMDG):

AEROSOLS

Air transport (ICAO-TI / IATA-DGR):

Aerosols, flammable

14.3. Transport hazard class(es)

2.1

Safety Data Sheet
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14.4. Packing group

not applicable

14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code

D

Sea transport (IMDG)

EmS-No.

F-D, S-U

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

not applicable

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 937,913

Observe in addition any national regulations!

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

calculated with mixing rule

Substance/product listed in the following inventories:

15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
918-668-5 64742-95-6	hydrocarbons, C9, aromatics	01-2119455851-35
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29
203-620-1 108-83-8	2,6-dimethylheptan-4-one	01-2119474441-41

SECTION 16: Other information

Full text of classification in section 3:

Flam. Gas 1 / H220

flammable gases

Extremely flammable gas.

Press. Gas

Gases under pressure

Flam. Liq. 3 / H226

Flammable liquids

Flammable liquid and vapour.

Asp. Tox. 1 / H304

Aspiration hazard

May be fatal if swallowed and enters airways.

STOT SE 3 / H335

STOT-single exposure

May cause respiratory irritation.

STOT SE 3 / H336

STOT-single exposure

May cause drowsiness or dizziness.

Aquatic Chronic 2 / H411

Hazardous to the aquatic environment

Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADR

European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL

Occupational Exposure Limit Value

BLV

Biological Limit Value

CAS

Chemical Abstracts Service

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



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CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.