

Safety Data Sheet

161035 Aluminium wound spray

Replaces date: 22/04/2015

Revision date: 15/09/2022

Version: 1.1.0

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

1.1. Product identifier

Trade name: 161035 Aluminium wound spray

Article no

Article no	Description
161035	

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

Recommended uses: For wounds on animals.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Jørgen Kruuse A/S
Address: Havretoften 4
Zip code: 5550
City: Langeskov
Country: DENMARK
E-mail: info@kruuse.com, kruuse.norge@kruuse.com, kruuse.svenska@kruuse.com
Phone: +4572141511
Fax: +4572141600
Homepage: www.kruuse.com

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Aerosol 1;H222
Aerosol 1;H229
Aquatic Chronic 3;H412

Most serious harmful effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Harmful to aquatic life with long lasting effects. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

Safety Data Sheet

161035 Aluminium wound spray

Replaces date: 22/04/2015

Revision date: 15/09/2022

Version: 1.1.0

2.2. Label elements

Pictograms



Signal word:

Danger

Hazard Statements

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

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.

P273

Avoid release to the environment.

P410+412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501

Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
cyclopentane	287-92-3 206-016-6	≤ 50 %		Flam. Liq. 2;H225 Aquatic Chronic 3;H412
propane	74-98-6 200-827-9	≤ 50 %		Flam. Gas 1A;H220
aluminium powder (stabilised)	7429-90-5 231-072-3	≤ 3 %		Flam. Sol. 1;H228 Water-react. 2;H261

Please see section 16 for the full text of H- / EUH-phrases.

Ingredient comments:

Pursuant to Regulation (EC) No. 648/2004 on detergents:
30% and more: aliphatic hydrocarbons

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion:

Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

Skin contact:

Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.

Eye contact:

Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

Safety Data Sheet

161035 Aluminium wound spray

Replaces date: 22/04/2015

Revision date: 15/09/2022

Version: 1.1.0

Burns: Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

General: When obtaining medical advice, show the safety data sheet or label.

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

May cause slight irritation to the skin and eyes. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

CAUTION! Aerosol containers may explode. Can generate harmful flue gases containing carbon monoxide in the event of fire.

5.3. Advice for firefighters

Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Provide adequate ventilation. Smoking and naked flames prohibited. Stay upwind/keep distance from source. Keep unnecessary personnel away. Wear safety goggles if there is a risk of eye splash. Wear gloves.

For emergency responders: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Avoid unnecessary release to the environment.

6.3. Methods and material for containment and cleaning up

Wipe up drops and splashes with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use the product under well-ventilated conditions. Smoking and naked flames prohibited. Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

Safety Data Sheet

161035 Aluminium wound spray

Replaces date: 22/04/2015

Revision date: 15/09/2022

Version: 1.1.0

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep in tightly closed original packaging. Store in a dry, cool, well-ventilated area. Store frost-free.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: EH40/2005 Workplace exposure limits. Last amended January 2020.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: Wear gloves. Type of material and thickness: Nitrile rubber/ 0,35 mm. Penetration time: >8 hours. Gloves must conform to EN 374.
The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Aerosol
Colour	No data
Odour	Characteristic
Solubility	Insoluble in the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	-42 - -49 °C	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	1.5 - 9.5 vol%	
Flash Point	< -39 °C	
Auto-ignition temperature	200 °C	

Safety Data Sheet

161035 Aluminium wound spray

Replaces date: 22/04/2015

Revision date: 15/09/2022

Version: 1.1.0

Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	1 mm ² /s	40 °C
Viscosity	1 mPas	20 °C
Partition coefficient n-octanol/water	No data	
Vapour pressure	853 kPa	
Density	No data	
Relative density	0.67	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Evaporation rate	6	(n-BuAc = 1)
VOC (Volatile organic compounds):	85,9 %	
VOC (Volatile organic compounds):	550,456 g/l	

SECTION 10: Stability and reactivity

10.1. Reactivity

The product may ignite on contact with e.g. heat or a spark.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources. Avoid direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

cyclopentane, cas-no 287-92-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		≥ 5000 mg/kg			

propane, cas-no 74-98-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		≥ 5000 mg/kg			

aluminium powder (stabilised), cas-no 7429-90-5

Safety Data Sheet

161035 Aluminium wound spray

Replaces date: 22/04/2015

Revision date: 15/09/2022

Version: 1.1.0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		≥ 5000 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

cyclopentane, cas-no 287-92-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		≥ 5000 mg/kg			

propane, cas-no 74-98-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		≥ 5000 mg/kg			

aluminium powder (stabilised), cas-no 7429-90-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		≥ 5000 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

cyclopentane, cas-no 287-92-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	≥ 50 mg/l			

propane, cas-no 74-98-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	≥ 50 mg/l			

aluminium powder (stabilised), cas-no 7429-90-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	≥ 50 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation:

May cause slight irritation. The product does not have to be classified. Test data are not available.

Serious eye damage/eye irritation:

Temporary irritation. The product does not have to be classified. Test data are not available.

Respiratory sensitisation or skin sensitisation:

The product does not have to be classified. Test data are not available.

Germ cell mutagenicity:

The product does not have to be classified. Test data are not available.

Carcinogenic properties:

The product does not have to be classified. Test data are not available.

Reproductive toxicity:

The product does not have to be classified. Test data are not available.

Single STOT exposure:

The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. The product does not have to be classified. Test data are not available.

Repeated STOT exposure:

The product does not have to be classified. Test data are not available.

Aspiration hazard:

The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting

None known.

Safety Data Sheet

161035 Aluminium wound spray

Replaces date: 22/04/2015

Revision date: 15/09/2022

Version: 1.1.0

properties:

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid unnecessary release to the environment. Do not dispose of aerosol sprays in refuse collection, even when empty. The sprays must be sent to the municipal chemical waste collection facility.

Category of waste: Aerosol sprays: EWC code: 16 05 04* gases in pressure containers (including halons) containing hazardous substances
Absorbent/cloth contaminated with the product: EWC code: 15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2.1

Hazard label(s): 2.1

Hazard identification number:

Other Information: -

14.4. Packing group:

14.5. Environmental hazards:

The product should not be labelled as an environmental hazard (symbol: fish and tree).

Tunnel restriction code: D

Inland water ways transport (ADN)

Safety Data Sheet

161035 Aluminium wound spray

Replaces date: 22/04/2015

Revision date: 15/09/2022

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14.1. UN number or ID number: 1950

14.2. UN proper shipping name: AEROSOLS

14.4. Packing group:

14.5. Environmental hazards:

The product should not be labelled as an environmental hazard (symbol: fish and tree).

14.3. Transport hazard class(es): 2.1

Hazard label(s): 2.1

Transport in tank vessels:

Other Information: -

Sea transport (IMDG)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2.1

Hazard label(s): 2.1

EmS: F-D, S-U

14.4. Packing group:

14.5. Environmental hazards:

The product is not a Marine Pollutant (MP).

Environmental Hazardous Substance Name(s): -

IMDG Code segregation group: - None -

Other Information: -

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es): 2.1

Hazard label(s): 2.1

14.4. Packing group:

14.5. Environmental hazards: -

Other Information: -

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions:

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. Directive 2012/18/EU (Seveso), P3a FLAMMABLE AEROSOLS: Column 2: 150 (net) t, Column 3: 500 (net) t. Regulation (EU) of the European Parliament and of the Council on the marketing and use of explosives precursors.

Covered by:
Council Directive (EC) on the protection of young people at work.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.1.0	15/09/2022	Bureau Veritas HSE/ SRU	1-3, 5-16

Safety Data Sheet

161035 Aluminium wound spray

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Abbreviations: PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC "The Registration, Evaluation and Authorization of Chemicals" as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

List of relevant H-statements

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H229	Pressurised container: May burst if heated.
H261	In contact with water releases flammable gases.
H412	Harmful to aquatic life with long lasting effects.

SDS is prepared by

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