



Polishing & Detailing Products

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MATERIAL SAFETY DATA SHEET

Conforms to 91/155/EEC-2001/58/EC

1. Identification of the substance / preparation and of the company / undertaking

Identification of the substance or preparation

Product name : Spray & Rinse

Reference Number : PSR

Date of printing : April 17, 2009

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Use of the substance/preparation : Maintenance product.

2. Composition / information on ingredients

Substance/Preparation :Preparation

Ingredient Name	CAS#	%	EC#	Classification
Ammonium bifluoride	1341.49-7	10-15	215-676-4	T; R25 C; R34

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Denmark Ammonium bifluoride	1341.49-7	10-15	215-676-4	T; R25 C; R34
Finland Ammonium bifluoride	1341.49-7	10-15	215-676-4	T; R25 C; R34
Netherlands Ammonium bifluoride	1341.49-7	10-15	215-676-4	T; R25 C; R34

★ Occupational Exposure Limit(s), If available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.



Classification :T; R25
:C; R34

Human health hazards :Toxic if swallowed
Causes burns

See Section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

Inhalation :If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing, is difficult, give oxygen. Obtain medical attention immediately.

Ingestion :Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

Skin Contact :In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes

Eye contact :In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

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5. Fire-fighting measures

NFPA	Health	3	Flammability	0	Reactivity	0
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- Extinguishing media : In case of fire, use water spray (fog), foam, dry chemical, or CO₂.
- Special exposure hazards : No specific hazard.
- Hazardous thermal decomposition products : These products are nitrogen oxides (NO, NO₂), halogenated compounds, hydrogen fluoride.
- Special protective equipment for fire-fighters : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

- Personal Precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
- Environmental precautions and cleanup methods : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapour or mist. Wash thoroughly after handling.
- Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials Recommended : Use original container.

8. Exposure controls/personal protection

Ingredient Name

Occupational Exposure Limits

Denmark

Ammonium bifluoride

80/1107EEC(Europe,2000). Notes: Indicative

TWA: 2.5 mg/m³ 8 hour(s).

EU OEL (Europe, 2000). Notes: Indicative

TWA: 2.5 mg/m³ 8 hour(s).

Finland

Ammonium bifluoride

80/1107EEC(Europe,2000). Notes: Indicative

TWA: 2.5 mg/m³ 8 hour(s).

EU OEL (Europe, 2000). Notes: Indicative

TWA: 2.5 mg/m³ 8 hour(s).

Netherlands

Ammonium bifluoride

80/1107EEC(Europe,2000). Notes: Indicative

TWA: 2.5 mg/m³ 8 hour(s).

EU OEL (Europe, 2000). Notes: Indicative

TWA: 2.5 mg/m³ 8 hour(s).

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Exposure controls

- Occupational exposure controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection : Use an approved, properly fitted, powered-air purifying respirator or respirator of equivalent or greater protection.
- Hand Protection : Use chemical resistant, impervious gloves.
- Eye protection : Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.
- Skin protection : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove potentially contaminated clothing.

9. Physical and chemical properties

General information

Appearance

- Physical state : Liquid.
- Colour : Brown.
- Odour : Citrus Fragrance

Important health, safety and environmental information

- pH : 5.5 [Base.]
- Boiling point : 99°C(210.2°F)
- Flash point : Closed cup: Higher than 93.3°C (200°F). (Pensky-Martens.)
- Explosive properties : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
- Oxidising properties : Not applicable
- Vapour pressure : The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water).
- Relative density : 1.04 g/cm³
- Solubility : Miscible in water.
- Vapour density : >1 (Air=1)
- Evaporation Rate : <1 compared to Butyl acetate.
- VOC Content : 6% (v/v).

Other information

Spray & Rinse

10. Stability and reactivity

- Stability : The product is stable.
- Materials to avoid : Reactive with oxidizing agents, alkalis.
- Hazardous Decomposition Products : These products are Nitrogen oxides (NO,NO₂), halogenated compounds, hydrogen fluoride.

11. Toxicological information

Potential Acute Health Effects

- Inhalation : Corrosive to the respiratory system.
- Ingestion : Toxic if swallowed.
- Skin Contact : Corrosive to the skin.
- Eye contact : Corrosive to eyes.

Acute toxicity

Ingredient Name	Test	Result	Route	Species
Quaternary ammonium chlorid	LD50	580mg/kg	Oral	Guinea pig

Over-exposure signs/symptoms

12. Ecological information





- Other adverse effects :Not available

13. Disposal considerations

- Methods of disposal : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.
- Waste Classification : Not applicable.
- European Waste Catalogue (EWC) : Not applicable.
- Hazardous Waste : Not applicable

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	UN1727	Corrosive solid n.o.s. (Ammonium bifluoride)	8	III		
AND Class	UN1727	Corrosive liquid n.o.s. (Ammonium bifluoride)	8	III		
IMDG Class	UN1727	Corrosive liquid n.o.s. (Ammonium bifluoride)	8	III		
IATA-DGR Class	UN1727	Corrosive liquid n.o.s. (Ammonium bifluoride)	8	III		

15. Regulatory informacion

EU Regulations

Hazard symbol(s)



Corrosive,



Toxic

Risk Phrases :R25- Toxic if swallowed.
R34- Causes Burns.

Safety Phrases :S1/2-Keep locked up and out of the reach of children.
S26-In case of contact with eyes, rinse immediately with plenty of water seek medical advice.

Contains :Ammonium bifluoride

Product Use :Classificacion and labelling have been performed according to EU directives 67/548/EEC,
1999/45/EC, including amendments and the intended use.
-Industrial applications.

EC Statistical Classification :3402905030

16. Other information

Full text of R phrases referred to in Sections 2 and 3- Denmark : R25- Toxic if swallowed.
R34- Causes Burns.

Full text of classifications referred to in Sections 2 and 3- Denmark : C - Corrosive
T - Toxic

Full text of R phrases referred to in Sections 2 and 3- Finland : R25- Toxic if swallowed.
R34- Causes Burns.

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Full text of classification referred to in Sections 2 and 3- Finland : C - Corrosive
T - Toxic

Full text of R phrases referred to in Sections 2 and 3- Netherlands : R25- Toxic if swallowed.
R34- Causes Burns.

Full text of classifications referred to in Sections 2 and 3- Netherlands : C - Corrosive
T - Toxic

Notice to Reader

To the best of our knowledge, all the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any responsibility whatsoever for the accuracy of the information contained herein. Final determination regarding suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.