

SAFETY DATA SHEET

Easy Rod

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

1.1. Product identifier

Product name Easy Rod

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

Identified uses Drain Unblocker Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier Aztec Chemicals
Unit 16, University Way
Orion Park
Crewe
Cheshire
CW1 6NG
+ 44 (0) 1270 655500 (T)
+ 44 (0) 1270 655501 (F)
info@aztecchemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0)7831 300868

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Aerosol 1 - H222, H229

Health hazards Eye Irrit. 2 - H319

Environmental hazards Not Classified

Environmental The product contains a substance which may have hazardous effects on the environment.

Physicochemical Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements
H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated
H319 Causes serious eye irritation.

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Precautionary statements	<p>P501 Dispose of contents/container in accordance with local regulations.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P102 Keep out of reach of children.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P260 Do not breathe vapour/spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P211 Do not spray on an open flame or other ignition source.</p>
Supplemental label information	<p>Global Warming Potential (GWP) in CO₂ equivalent: 1430.</p> <p>Contains a fluorinated greenhouse gas covered by the Kyoto protocol: HFC-134a (Tetrafluoroethane : EC No. 212-377-0). (See label for the correct amount).</p>
Detergent labelling	≥ 30% halogenated hydrocarbons, Contains d-LIMONENE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRAFLUOROETHANE			60-100%
CAS number: 811-97-2	EC number: 212-377-0	REACH registration number: 01-2119459374-33-XXXX	
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -		
ACETONE			10-30%
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) F;R11 Xi;R36 R66 R67		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air at once.
Inhalation	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. It is unlikely that this substance will be swallowed due to its physical properties.
Skin contact	Rinse with water. Get medical attention if irritation persists after washing.
Eye contact	Rinse with water. Get medical attention if any discomfort continues.

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

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

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Decomposes on contact with flames and hot surfaces to produce hydrofluoric acid and fluorophosgene.

5.3. Advice for firefighters

Protective actions during firefighting Warn firefighters that aerosols are involved. Containers close to fire should be removed or cooled with water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Do not allow runoff to sewer, waterway or ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up VENTILATE/EVAPORATE.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Do not spray near a naked flame or any incandescent material. Provide adequate ventilation. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 degrees Centigrade. Do not pierce or burn, even after use. Keep away from oxidising materials, heat and flames. Store at temperatures between 15°C and 35°C. Protect from heat and direct sunlight.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

TETRAFLUOROETHANE

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 4240 mg/m³

ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

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Protective equipment



Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation.

Personal protection

When using do not smoke

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Gloves should have a breakthrough time of >480 minutes. 0.4mm thickness Manufactured/tested in accordance with EN 374.

Other skin and body protection

Not relevant

Hygiene measures

Wash hands after contact. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Do not breathe gas, fume, vapours or spray.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Lemon.
Melting point	Not determined.
Initial boiling point and range	Not applicable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 2.6% Upper flammable/explosive limit: 13%
Vapour pressure	4.5 - 5.5 bar @ 20°C
Relative density	1.155 @ 20°C
Solubility(ies)	Immiscible with water.
Auto-ignition temperature	465°C
Explosive properties	Pressurised container: may burst if heated Heating may generate flammable vapours.
Comments	Information given is applicable to the major ingredient.

9.2. Other information

Other information Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

Volatile organic compound This product contains a maximum VOC content of 100 %.

SECTION 10: Stability and reactivity

10.1. Reactivity

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10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Stable for a storage time of at least 24 months.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Decomposes on contact with flames and hot surfaces to produce hydrofluoric acid and fluorophosgene.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Alkali metals. Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Danger of toxic fluorine-based pyrolysis products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

Inhalation May cause respiratory system irritation.

Ingestion No specific health hazards known.

Skin contact Skin irritation should not occur when used as recommended. May cause sensitisation by skin contact.

Eye contact Irritating to eyes.

Acute and chronic health hazards This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

Route of entry Inhalation

Target organs Respiratory system, lungs

Medical symptoms Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability T1/2 atmosphere: 8.6 - 16.7 years (valid for 1,1,1,2-Tetrafluoroethane) Halogen Global Warming Potential (HGWP) 0.3 (1,1,1,2-Tetrafluoroethane) Global Warming Potential (GWP) in CO₂ equivalent: 1301.

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

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Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Do not puncture or incinerate, even when empty.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste class	16 00 00 (Wastes not otherwise specified in the list) - 16 05 00 (gases in pressure containers and discarded chemicals) - 16 05 04 (gases in pressure containers including halons containing dangerous substances)

SECTION 14: Transport information

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

Transport labels



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14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Workplace Exposure Limits EH40.
CHIP for everyone HSG228.
Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.
British Aerosol Manufacturers Code of Practice 7th. Edition 1999

Water hazard classification WGK 1

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 05/05/2015

Revision 1

SDS number 10411

SDS status Approved.

Risk phrases in full NC Not classified.

Hazard statements in full H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: may burst if heated
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.