



SAFETY DATA SHEET FR6 FLOOR POLISH STRIPPER

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name FR6 FLOOR POLISH STRIPPER
Internal identification C422

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

Identified uses Cleaning agent.
Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier ARROW SOLUTIONS
RAWDON ROAD
MOIRA
SWADLINCOTE
DERBYSHIRE
DE12 6DA
TEL: +44 (0)1283 221044
FAX: +44 (0)1283 225731
sales@arrowchem.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330 (24 hrs).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Met. Corr. 1 - H290
Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

FR6 FLOOR POLISH STRIPPER

Precautionary statements

P280 Wear protective clothing, gloves, eye and face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water or shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/ doctor.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains 2-AMINOETHANOL

Detergent labelling < 5% anionic surfactants, < 5% perfumes, Contains d-LIMONENE, CITRAL

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

2-AMINOETHANOL		5-10%
CAS number: 141-43-5	EC number: 205-483-3	REACH registration number: 01-2119486455-28
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
STOT SE 3 - H335		
Aquatic Chronic 3 - H412		
SODIUM DODECYL BENZENE SULPHONATE		1-5%
CAS number: 85117-50-6	EC number: 285-600-2	
Classification		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate		<1%
CAS number: 51981-21-6	EC number: 257-573-7	REACH registration number: 01-2119493601-38-XXXX
Classification		
Not Classified		

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SODIUM HYDROXIDE		<1%
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-XXXX
Classification		
Met. Corr. 1 - H290		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		

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	Show this Safety Data Sheet to the medical personnel. Get medical attention immediately. Rinse immediately with plenty of water. If medical advice is needed, have product container or label at hand. Chemical burns must be treated by a physician.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately.
Skin contact	Rinse immediately with plenty of water. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention immediately.

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

General information	Chemical burns must be treated by a physician.
Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	Causes severe burns.
Skin contact	Causes severe skin burns and eye damage.
Eye contact	Causes serious eye damage. Severe irritation, burning and tearing.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x). Sulphurous gases (SO _x).
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5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
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SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing, gloves, eye and face protection. Avoid inhalation of vapours and contact with skin and eyes. Do not touch or walk into spilled material. Provide adequate ventilation. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage to prevent material damage. Absorb spillage with inert, damp, non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing, gloves, eye and face protection. Avoid spilling. May be corrosive to metals. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

2-AMINOETHANOL

Long-term exposure limit (8-hour TWA): WEL 1 ppm(Sk) 2.5 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 3 ppm(Sk) 7.6 mg/m³(Sk)

Sk

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

2-AMINOETHANOL (CAS: 141-43-5)

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DNEL

Industry - Dermal; Long term systemic effects: 1 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 3.3 mg/kg/day
 Industry - Inhalation; Long term local effects: 3.3 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 0.24 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 2 mg/kg/day
 Consumer - Inhalation; Long term local effects: 2 mg/kg/day
 Consumer - Oral; Long term systemic effects: 3.75 mg/kg/day

PNEC

- Fresh water; 0.085 mg/l
- Marine water; 0.0085 mg/l
- Intermittent release; 0.028 mg/l
- Sediment (Freshwater); 0.434 mg/kg
- Sediment (Marinewater); 0.0434 mg/kg
- Soil; 0.0367 mg/kg
- STP; 100 mg/l

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (CAS: 51981-21-6)

DNEL

Workers - Inhalation; Long term systemic effects: 7.3 mg/m³
 Workers - Dermal; Long term systemic effects: 15,000 mg/kg/day
 General population - Inhalation; Long term systemic effects: 1.8 mg/m³
 General population - Dermal; Long term systemic effects: 7,500 mg/kg/day
 General population - Oral; Long term systemic effects: 1.5 mg/kg/day

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL

Industry - Inhalation; Short term local effects: 1 mg/m³
 Industry - Inhalation; Long term local effects: 1 mg/m³
 Consumer - Inhalation; Short term local effects: 1 mg/m³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

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. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 3 hours. The breakthrough time for any glove material may be different for different glove manufacturers. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Protective gloves should have a minimum thickness of 0.15 mm. Gloves made from the following material may provide suitable chemical protection: Neoprene. Nitrile rubber. Rubber (natural, latex). The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands after handling.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Red.
Odour	Characteristic.
pH	pH (concentrated solution): >13.0
Relative density	1.01 @ 20°C
Solubility(ies)	Completely soluble in water.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Reactions with the following materials may generate heat: Acids.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
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10.4. Conditions to avoid

Conditions to avoid	Avoid contact with acids.
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10.5. Incompatible materials

Materials to avoid	Strong acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x). Sulphurous gases (SO _x).
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 10,940.41

Acute toxicity - dermal

ATE dermal (mg/kg) 12,530.56

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 134.47

Skin corrosion/irritation

Extreme pH ≥ 11.5 Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Corrosive to skin. Corrosivity to eyes is assumed. No testing is needed.

Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion Causes severe burns.

Skin contact Causes severe skin burns and eye damage.

Eye contact Causes serious eye damage.

Toxicological information on ingredients.

2-AMINOETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,720.0

Species Rat

ATE oral (mg/kg) 1,720.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,025.0

Species Rabbit

ATE dermal (mg/kg) 1,025.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 11.0

Species Rat

ATE inhalation (vapours mg/l) 11.0

SODIUM DODECYL BENZENE SULPHONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 650.0

FR6 FLOOR POLISH STRIPPER

Species Rat
ATE oral (mg/kg) 650.0

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rat

ATE dermal (mg/kg) 2,000.1

SODIUM HYDROXIDE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

Species Rat

ATE oral (mg/kg)

CITRAL**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 4,960.0

Species Rat

ATE oral (mg/kg) 4,960.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,250.0

Species Rabbit

ATE dermal (mg/kg) 2,250.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 680.0

Species Rat

ATE inhalation (vapours mg/l) 680.0

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Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

2-AMINOETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 349 mg/l, *Cyprinus carpio* (Common carp)
 LC50, 96 hours: 170 mg/l, *Carassius auratus* (Goldfish)
 LC₅₀, 96 hours: 227 mg/l, *Pimephales promelas* (Fat-head Minnow)
 LC₅₀, 96 hours: 3684 mg/l, *Brachydanio rerio* (Zebra Fish)
 LC₅₀, 96 hours: >300 mg/l, *Lepomis macrochirus* (Bluegill)
 LC₅₀, 96 hours: >114 mg/l, *Oncorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 65 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₅₀, 72 hours: 2.5 mg/l, *Selenastrum capricornutum*
 EC₅₀, 72 hours: 22 mg/l, *Scenedesmus subspicatus*
 EC₅₀, 72 hours: 2.8 mg/l, *Pseudokirchneriella subcapitata*

Acute toxicity - microorganisms EC20, 30 minutes: > 1000 mg/l, Activated sludge
 EC₅₀, 3 hours <: 1000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.85 mg/l, *Daphnia magna*

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 100 mg/l, *Oncorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, *Daphnia magna*

SODIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC50, 48 hours: ~ 145 mg/l, *Poecilia reticulata* (Guppy)
 REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: ~ 76 mg/l, *Daphnia magna*
 REACH dossier information.

d-LIMONENE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

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12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

General For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

Special Provisions note

14.1. UN number

UN No. (ADR/RID) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, N.O.S.(2-aminoethanol)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S.(2-aminoethanol)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S.(2-aminoethanol)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C9

ADR/RID label 8

IMDG class 8

ICAO class/division 8

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Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended). 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. Commission Regulation (EU) No 2015/830 of 28 May 2015.
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>NOEC: No Observed Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>UN: United Nations.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Classification abbreviations and acronyms	<p>Acute Tox. = Acute toxicity</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p> <p>Eye Dam. = Serious eye damage</p> <p>Eye Irrit. = Eye irritation</p> <p>Met. Corr. = Corrosive to metals</p> <p>Skin Corr. = Skin corrosion</p> <p>Skin Irrit. = Skin irritation</p> <p>STOT SE = Specific target organ toxicity-single exposure</p>
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	13/12/2018
Revision	5.0
Supersedes date	14/12/2017
SDS number	15490
Hazard statements in full	<p>H290 May be corrosive to metals.</p> <p>H302 Harmful if swallowed.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

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.