



SAFETY DATA SHEET

FK 111 Cleaning solution

1. Identification of the preparation and of the company

Product name and/or code : Andrews Coatings Ltd. Carver Building, Littles Lane
Product use :
Manufacturer : Wolverhampton, West Midlands, WV1 1JY
 Telephone Number: 01902 429190, Fax Number: 01902 426574
Emergency phone: : Email: sales@andrewscoatings.co.uk

2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name*	CAS no.	%	EC nr.	Classification
United Kingdom (UK)				
Sodium hydroxide	1310-73-2	2.5 - 5	215-185-5	C; R35
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0 - 1	225-208-0	Xn; R22 R43
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The pre
Classif Andrews Coatings Ltd. Carver Building, Littles Lane
Humar Wolverhampton, West Midlands, WV1 1JY
Additic Telephone Number: 01902 429190, Fax Number: 01902 426574
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4.

First aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : Inhalation not likely under normal use conditions.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5. Fire-fighting measures

- Extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not to be used : water jet.
- Recommendations** : Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.
- Hazardous combustion products** : Decomposition products may include the following materials:
metal oxide/oxides

6. Accidental release measures

- Personal precautions** : Avoid contact with eyes, skin and clothing. Refer to protective measures listed in sections 7 and 8.
- Spill** : Clean up spills immediately. Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary, neutralize the residue with a dilute solution of acetic acid.

6. Accidental release measures

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

7. Handling and storage

- Handling**
- : Keep container tightly closed.
 - Avoid contact with skin and eyes.
 - Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
 - Put on appropriate personal protective equipment (see section 8).
 - Comply with the health and safety at work laws.
- Storage**
- : Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
 - Keep away from: oxidizing agents, strong alkalis, strong acids.
 - Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
 - Do not empty into drains..

8. Exposure controls/personal protection

- Engineering measures**
- : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.
- Occupational exposure limits**
- : Not available.
- Exposure controls**
- Occupational exposure controls**
- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures**
- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection**
- : Respiratory protection is not required for the use of this product.
- Hand protection**
- : >8 hours (breakthrough time): Wear suitable gloves: nitrile rubber or neoprene (EN 374-1).
- Eye protection**
- : Recommended: safety glasses with side-shields or face shield (EN 166) .
- Skin protection**
- : Recommended: overall (EN 467) .
- Other protection**
- : Additional body garments should be used to avoid exposed skin surfaces (e.g. sleevelets, apron, disposable suit etc.), based on the task being performed. Wear apron or coverall if there is a risk of exposure to splashes. Consult your supervisor or S.O.P. for special handling instructions.
- Environmental exposure controls**
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Environmental exposure controls

Do not allow to enter drains or watercourses.

9. Physical and chemical properties

- Physical state**
- : Liquid. (Clear to slightly hazy liquid.)
- Odor**
- : Odorless.
- Color**
- : Blue.
- Boiling point**
- : >100°C (212°F)
- Vapor pressure**
- : Highest known value: 2.3 kPa (17.3 mm Hg) (at 20°C) (Water).
- Volatility %**
- : 0% (v/v). 0% (w/w).
- VOC content w/w**
- : 0 (g/l).
- Solubility**
- : Easily soluble in the following materials: cold water and hot water.
- Relative density**
- : 1.04 (Water = 1)
- pH**
- : 11 [Basic.]

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Contains 2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium hydroxide	LD50 Dermal	Mouse	40 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
	LDLo Oral	Rabbit	500 mg/kg	-
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	LD50 Dermal	Rat	>2 g/kg	-
	LD50 Oral	Rat	763 mg/kg	-

12. Ecological information

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Sodium hydroxide	-	Acute LC50 160 mg/L	Fish - Goldfish (<i>carassius auratus</i>)	24 hours
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	Intoxication	Acute EC50 26,1 mg/L	Daphnia - <i>Daphnia magna</i>	48 hours
	Mortality	Acute LC50 >119 mg/L	Fish - Rainbow trout (<i>oncorhynchus mykiss</i>)	96 hours

Ecological information

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	-4.67	-	low

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

13. Disposal considerations

Do not allow to enter drains or watercourses.
Dispose of according to all federal, state and local applicable regulations.

European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 06 02 00 wastes from the MFSU of bases. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.



Hazardous waste : Yes.

14. Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.


International transport regulations

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	1824	SODIUM HYDROXIDE, SOLUTION	8	III		Hazard identification number 80 Limited quantity LQ7
IMDG Class	1824	SODIUM HYDROXIDE, SOLUTION Limited quantity	8	III		Emergency schedules (EmS) F-A, S-B Remarks (≤ 5L:) Limited quantity
IATA Class	1824	SODIUM HYDROXIDE, SOLUTION	8	III		Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 819 Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 821 Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y819

PG* : Packing group

15. Regulatory information

EU regulations	: The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:
Hazard symbol(s)	:  Corrosive
Risk phrases	: R34- Causes burns.
Safety phrases	: S25- Avoid contact with eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of soap and water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Contains	: Sodium hydroxide
Europe inventory	: Europe inventory: Not determined.
Other EU regulations	
Additional warning phrases	: Contains (2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol). May produce an allergic reaction.
CN code	: 2815 12 00
National regulations	
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

16. Other information

CEPE Classification : 1
Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R22- Harmful if swallowed.
R34- Causes burns.
R35- Causes severe burns.
R43- May cause sensitization by skin contact.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.



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