



SAFETY DATA SHEET 5 MINUTE FR HARDENER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME 5 MINUTE FR HARDENER
 PRODUCT NO. 14271H
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2 HAZARDS IDENTIFICATION

May cause sensitisation by skin contact. Irritating to eyes, respiratory system and skin.

CLASSIFICATION Xi;R36/37/38. R43.

HUMAN HEALTH

The product is irritating to eyes and skin. The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ALUMINIUM TRIHYDRATE		21645-51-2	30-60%	Xi;R36/37/38. R43.

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Contact physician if discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Water. Carbon dioxide (CO₂). Dry chemicals. Foam.

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SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

By heating and fire, toxic vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Provide adequate ventilation. Do not breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet. In case of inadequate ventilation, use respiratory protection. Avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Provide good ventilation. Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROCESS CONDITIONS

Provide eyewash, quick drench.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves. Butyl rubber gloves are recommended. Neoprene gloves are recommended. Nitrile gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

Keep away from food, drink and animal feeding stuffs. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

SKIN PROTECTION

Wear apron or protective clothing in case of contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid
COLOUR	Amber
ODOUR	Mercaptans (thiols).
SOLUBILITY	Slightly soluble in water.

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BOILING POINT (°C)	N/D	MELTING POINT (°C)	N/D
RELATIVE DENSITY	1.13	VAPOUR DENSITY (air=1)	N/D
VAPOUR PRESSURE	<<1 mmHg 21	EVAPORATION RATE	N/D
pH-VALUE, DILUTED SOLUTION	9.5 5% Soln	FLASH POINT (°C)	>93 PM Closed cup.

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of: Nitrogen. Sulphur.

11 TOXICOLOGICAL INFORMATION

INHALATION

Irritating to respiratory system.

SKIN CONTACT

Irritating to skin. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact. Risk of sensitisation or allergic reactions among sensitive individuals.

EYE CONTACT

Irritating to eyes. Risk of serious damage to eyes. Vapour or spray may cause eye damage, impaired sight or blindness.

HEALTH WARNINGS

This chemical may cause skin/eye irritation. Prolonged or repeated exposure may cause severe irritation. May cause irritation to the respiratory system.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Avoid release to the environment.

MOBILITY

Do not discharge into drains, water courses or onto the ground.

WATER HAZARD CLASSIFICATION

nwg

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS

08 04 99

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

ADR LABEL NO.

0

MARINE POLLUTANT

No.

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15 REGULATORY INFORMATION

LABELLING



Irritant

CONTAINS

ALUMINIUM TRIHYDRATE

RISK PHRASES

R43 May cause sensitisation by skin contact.
 R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S37/39 Wear suitable gloves and eye/face protection.
 S51 Use only in well-ventilated areas.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16 OTHER INFORMATION

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 REV. NO./REPL. SDS GENERATED 4
 DATE 13.05.2005

RISK PHRASES IN FULL

R36/37/38 Irritating to eyes, respiratory system and skin.
 R43 May cause sensitisation by skin contact.

DISCLAIMER

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.