



SAFETY DATA SHEET GUARD-COAT HARDENER FOR GREEN

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

PRODUCT NAME GUARD-COAT HARDENER FOR GREEN
PRODUCT NO. 138/W224/15 - hardener for green
APPLICATION HARDENER FOR TWO COMPONENT FLOOR COATING
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2 HAZARDS IDENTIFICATION

Risk of serious damage to eyes.

CLASSIFICATION (1999/45) Xi;R41.

PHYSICAL AND CHEMICAL HAZARDS

When handled correctly, undamaged units represent no danger.

HUMAN HEALTH

The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
Polyamine - Epoxy Resin Adduct		238080-05-2	10-30%	Xn;R22. Xi;R41.

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

4 FIRST-AID MEASURES

GENERAL INFORMATION

Get medical attention if any discomfort continues.

INHALATION

Move into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Place unconscious person on the side in the recovery position and ensure breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Consult a physician for specific advice.

INGESTION

Get medical attention immediately! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Induce vomiting or remove stomach contents by gastric suction only as directed by medical personnel.

SKIN CONTACT

Important to remove the substance from the skin immediately. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Continue to rinse for at least 15 minutes. Remove contaminated clothing and shoes. Contaminated leather should be discarded. Wash contaminated clothing before reuse.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials. Fire can be extinguished using: Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours.

SPECIFIC HAZARDS

When heated and in case of fire, toxic vapours/gases may be formed. Fire creates: Acrid smoke/fumes of : Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

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

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Wear butyl rubber protective clothing and boots. Avoid contact with skin and eyes. Wear protective gloves and, in case of splashes, goggles/face shield too. Exclude non-essential personnel. Open enclosed spaces to outside atmosphere.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Clean-up personnel should use respiratory and/or liquid contact protection. Recover the product and place in a suitable container for reuse. Place in metal containers for recovery or disposal. or Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Large Spillages: Recover spilled material with a vacuum truck.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Persons susceptible to allergic reactions should not handle this product. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols or mists containing these resins through engineering controls, such as exhaust ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Wear goggles and face shield. DO NOT GET IN EYES. Other individuals working in the vicinity of the product where exposure can occur should be fitted with chemical splash goggles. Contaminated clothing should be properly laundered or disposed of in a manner that will not cause additional exposure. Workers should be strongly encouraged to follow good hygiene practices, such as thorough washing of hands, arms, neck and face. The Manual Handling Operations Regulations may apply to the handling of containers of this product. For products sold by weight refer to the guide net weight indicated on the container. Allowance will have to be made for the immediate packaging to give an approximate gross weight.

STORAGE PRECAUTIONS

Keep containers tightly closed. Keep upright. Protect from light, including direct sunrays. Store in closed original container at temperatures between 5°C and 25°C. Store separated from: Oxidising material. Acids. Alkalis.

STORAGE CLASS

Miscellaneous hazardous material storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

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RESPIRATORY EQUIPMENT

When spraying use suitable air-supplied respirator.

HAND PROTECTION

Protective gloves and goggles must be used if there is a risk of direct contact or splash. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact. Wear full-face visor or shield. Other individuals working in the vicinity of the product where exposure could occur should also be fitted with chemical splash goggles. Workers should not contact their eyes or skin with hands contaminated with the material.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

PERSONAL PROTECTION

Unprotected persons should be kept away from treated areas.

SKIN PROTECTION

Protection suit must be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous Liquid		
COLOUR	Green		
ODOUR	Ammonia		
SOLUBILITY	Soluble in water.		
BOILING POINT (°C)	>100 760 mm Hg	RELATIVE DENSITY	1.10 @ 20 C
VAPOUR PRESSURE	15 mm Hg @ 21 C	pH-VALUE, CONC. SOLUTION	8.9
VISCOSITY	15000 - 25000 cps @ 25 C	FLASH POINT (°C)	above 100 CC (Closed cup).
AUTO IGNITION TEMPERATURE (°C)	150		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Not relevant.

MATERIALS TO AVOID

Strong oxidising substances. Organic peroxides/hydroperoxides. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	511 mg/kg (oral rat)
TOXIC CONC. - LC 50	no data ppm/-- (ihl-rat)

TOXICOLOGICAL INFORMATION

Tests with rats and rabbits to determine ocular toxicity resulted in deaths in both species at a level of 70% active ingredient. Animals died within one hour after material was placed in the eye and before eye irritation could be scored. Additional tests showed that flushing the eye within 30 seconds was not effective in preventing animal deaths. Severe irritation to the eyes of a rabbit. Non irritant to the skin of a rabbit. No delayed, subchronic or chronic test data are known.

INHALATION

Not relevant at normal room temperatures. When heated, harmful vapours may be formed. Vapour from this chemical can be hazardous when inhaled. Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

INGESTION

Harmful if swallowed.

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SKIN CONTACT

Risk of sensitisation or allergic reactions among sensitive individuals.

EYE CONTACT

Risk of serious damage to eyes.

ROUTE OF ENTRY

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

MEDICAL CONSIDERATIONS

Skin disorders and allergies. Splash in eye requires examination by eye specialist.

SPECIFIC EFFECTS

Over exposure, especially during spraying without the necessary precautions, entails risk of concentration- dependant irritating effects on eyes, nose, throat and respiratory tract.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product contains a substance which may cause long term adverse effects in the environment.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

No data available.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. May be incinerated in a suitable facility provided local regulations are observed.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Incinerate with provision for removal of effluent gases by scrubber.

WASTE CLASS

Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging). Wear protective clothing during disposal operations. If disposal is by waste contractor, make sure that he has sufficient information and that waste containers are properly labelled. Ideally this component should be mixed with the appropriate resin base and allowed to react fully producing a solid non hazardous waste.

14 TRANSPORT INFORMATION

GENERAL

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

MARINE POLLUTANT

No.

15 REGULATORY INFORMATION

LABELLING



Irritant

RISK PHRASES

R41 Risk of serious damage to eyes.

SAFETY PHRASES

S2 Keep out of the reach of children.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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S28	After contact with skin, wash immediately with plenty of water.
S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S39	Wear eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.
S64	If swallowed, rinse mouth with water (only if the person is conscious).
P5	Contains epoxy constituents. See information supplied by the manufacturer.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Health and Safety at Work Act 1974.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974. Rivers (Prevention of Pollution) Act 1961.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40) Health and Safety at Work Act (As Amended) 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) The Manual Handling Operations Regulations 1992 [SI 1992:2793]

16 OTHER INFORMATION

REVISION COMMENTS

Issued in new format for Reach compliance Issued in compliance with 30th & 31st ATP to Council Directive 67/548, as detailed in Commission Directive 2004/73/EC (1st ATP of EC Regulation 1272/2008) Corrections to Section 14, Transport Information

ISSUED BY

Technical Dept. (P.E.)

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SAFETY DATA SHEET STATUS

Approved.

DATE Date Printed

SIGNATURE Initials

RISK PHRASES IN FULL

R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.

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.