



Printing date 09/10/2002

Reviewed on 06/01/2000

1 Identification of substance

HMG

- · Product details
- · Trade name: Crystalseal floor & galley varnish
- · Article number:

RES222a

Stock codes:5062,5064

- · Application of the substance / the preparation Coating compound/ Surface coating/ paint
- · Manufacturer/Supplier:

HMG AMERICA LLC, PO BOX313 ROEBUCK SC29376 TEL 864 585 0266

FAX 864 585 3808

· Information department: CHEMTREC 1-800 424 9300 or 1(703)527 3887 outside the USA

2 Composition/Data on components

- · Chemical characterization
- Description: Mixture of the substances listed below with nonhazardous additions.

	· Dangerous	Dangerous components:		
ı	1330-20-7	Xylene (mix)	50-100%	
	4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate	2.5-10%	

· Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description:



Toxic

· Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Flammable.

Harmful in contact with skin.

Toxic by inhalation.

Irritating to skin.

May cause sensitization by inhalation and skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment Contains isocyanates. See information supplied by the manufacturer.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

(Contd. on page 2)

Printing date 09/10/2002 Reviewed on 06/01/2000

Trade name: Crystalseal floor & galley varnish

(Contd. of page 1)

· NFPA ratings (scale 0 - 4)



· WHMIS-ratings (scale 0 - 4)



Health = *2 Fire = 3 Reactivity = 0

4 First aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Protective equipment: Mount respiratory protective device.

6 Accidental release measures

- $\cdot \textit{Person-related safety precautions:} \ \textit{Wear protective equipment. Keep unprotected persons away.}$
- $\cdot \textit{Measures for environmental protection:}$

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

- · Handling:
- · Information for safe handling:

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

(Contd. on page 3)

Printing date 09/10/2002

Trade name: Crystalseal floor & galley varnish

(Contd. of page 2)

Reviewed on 06/01/2000

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Class according to regulation on flammable liquids: A II

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

1330-20-7 *Xylene* (mix)

 $PEL | 435 \text{ mg/m}^3, 100 \text{ ppm}$

REL Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

(o-, m-, & p-isomers)

TLV Short-term value: 651 mg/m³, 150 ppm

Long-term value: 434 mg/m³, 100 ppm

BEI

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate

REL Short-term value: 0.18 mg/m³, 0.02 ppm

Long-term value: 0.045 mg/m³, 0.005 ppm

Skin

TLV $0.045 \text{ mg/m}^3, 0.005 \text{ ppm}$

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)

Printing date 09/10/2002

Trade name: Crystalseal floor & galley varnish

(Contd. of page 3)

Reviewed on 06/01/2000

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has

· Eye protection:



Tightly sealed goggles

7 .	i nysicai	ини	chemical	properties	
	General In	form	ation		

· General Information		
Form: Color: Odor:	Fluid According to product specification Characteristic	
· Change in condition Melting point/Melting range Boiling point/Boiling range:		
· Flash point:	24°C (75°F)	
· Ignition temperature:	500.0°C (932°F)	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· Explosion limits:		
Lower: Upper:	1.1 Vol % 7.0 Vol %	
· Vapor pressure at 20°C (68°F)	: 6.7 hPa	
· Density:	Not determined.	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Dangerous reactions No dangerous reactions known.
- · Dangerous products of decomposition: No dangerous decomposition products known.

Printing date 09/10/2002 Reviewed on 06/01/2000

Trade name: Crystalseal floor & galley varnish

(Contd. of page 4)

11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

1330-20-7 Xylene (mix)

 Oral
 LD50
 8700 mg/kg (rat)

 Dermal
 LD50
 2000 mg/kg (rbt)

 Inhalative
 LC50/4 h
 6350 mg/l (rat)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

 $\cdot Additional\ toxicological\ information:$

The product shows the following dangers according to internally approved calculation methods for preparations:

Poisonous.

Harmful.

Irritant.

12 Ecological information

- · Ecotoxical effects:
- · Remark: Harmful to fish
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

13 Disposal considerations

- · Product:
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· DOT regulations:



· Hazard class:

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· Identification number:

UN1263

· Packing group:

III

(Contd. on page 6)

Printing date 09/10/2002 Reviewed on 06/01/2000

Trade name: Crystalseal floor & galley varnish

(Contd. of page 5)

- · Proper shipping name (technical name): Paint
- · Land transport ADR/RID (cross-border):



· ADR/RID class: 3 Flammable liquids

Item: 31c
 Danger code (Kemler): 30
 UN-Number: 1263
 Description of goods: 1263 Paint

· Maritime transport IMDG:



· IMDG Class: 3.3 · Page: 3372 · UN Number: 1263 · Packaging group: III · EMS Number: 3-05 · MFAG: 310,313 · Marine pollutant: No · Proper shipping name: Paint

· Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 3
UN/ID Number: 1263
Packaging group: III
Proper shipping name: Paint

15 Regulations

- $\cdot \textit{Sara}$
- · Section 355 (extremely hazardous substances):

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

(Contd. on page 7)

Printing date 09/10/2002

Reviewed on 06/01/2000

Trade name: Crystalseal floor & galley varnish

(Contd. of page 6)

· Cancerogenity categories

· EPA (Environmental Protection Agency)

1330-20-7 Xylene (mix) D

· IARC (International Agency for Research on Cancer)

1330-20-7 Xylene (mix) 3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

1330-20-7 Xylene (mix) A4

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:

Toxic

· Hazard-determining components of labelling:

3-isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate

Xylene (mix)

· Risk phrases:

Flammable.

Harmful in contact with skin.

Toxic by inhalation.

Irritating to skin.

May cause sensitization by inhalation and skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· Safety phrases:

Keep in a cool place.

Keep away from living quarters.

Do not breathe gas/fumes/vapour/spray.

We ar suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately.

Avoid release to the environment. Refer to special instructions/Safety data sheets

· Special labeling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

- · National regulations:
- · Classification according to VbF: A II
- · Technical instructions (air):

Class	Share in %	
II	57.0	

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Printing date 09/10/2002

Reviewed on 06/01/2000

Trade name: Crystalseal floor & galley varnish

(Contd. of page 7)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- $\textbf{\cdot Department issuing MSDS:} \ Product \ safety \ department: LABORATORY$
- · Contact: DAVE MCROBBIE

USA