



Product Name: **PERMASOLID™ HS MIXING COLOURS SERIES 270 – LEAD FREE TINTERS**
PERMASOLID™ HS MISCHLACK SERIE 270

Issue Number: 004
 Date of Issue : 5th June, 02

Date Printed : 29/06/2006

MATERIAL SAFETY DATA SHEET

SPIES HECKER. A member of Du Pont Performance Coatings.
 Du Pont (Australia) LTD. ABN 59 000 716 469

Address: 15-23 Melbourne Road
 Riverstone NSW 2765
 Telephone: (02) 9627 4422
 Transport Emergency Tel: (02) 9963 1301
 24 hour Medical Emergency Tel: 1800 674 415

Classified as hazardous according to criteria of NOHSC

- IRRITANT

- | | | | |
|-----|--|-----|--|
| R37 | Irritating to respiratory system | S9 | Keep container in a well-ventilated place |
| R66 | Repeated exposure may cause skin dryness or cracking | S23 | Do not breathe vapour |
| R67 | Vapours may cause drowsiness and dizziness | S33 | Take precautionary measures against static discharges |
| | | S43 | In case of fire use alcohol resistant foam, carbon dioxide or dry powder |
| | | S46 | If swallowed, seek medical advice immediately and show this container or label |
| | | S62 | If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label |

Contains: Liquid Hydrocarbons 25 – 75%

IDENTIFICATION

Product Name : **PERMASOLID™ HS MIXING COLOUR SERIES 270 – LEAD FREE TINTERS**
PERMASOLID™ HS MISCHLACK SERIE 270

Product Codes :

This Sheet contains data for the following products of the PERMASOLID HS MIXING COLOUR SERIES 270 range:

PRODUCT CODE (AUS)	PRODUCT NAME	ARTICLE NUMBER	PRODUCT NAME
620-75901	HG901 WHITE	24109010	HG901 WEISS
620-75902	HG902 DEEP BLACK	24109029	HG902 TIEFSCHWARZ
620-75904	HG904 LIGHT YELLOW	24109045	HG904 HELLGELB
620-75905	HG905 OCHRE	24109053	HG905 OCKER
620-75906	HG906 OXIDE RED	24109061	HG906 OXIDROT
620-75907	HG907 SPECIAL RED	24109070	HG907 SPEZIALROT
620-75911	HG911 REDDISH ORANGE	24109118	HG911 ROTORANGE
620-75915	HL915 TRANSPARENT BLACK	24109150	HL915 SCHWARZLASUR
620-75917	HL917 BLUE	24109177	HL917 BLAU
620-75918	HL918 GREEN	24109185	HL918 GRUN
620-75919	HL919 BRILLIANT RED	24109193	HL919 BRILLANTROT
620-75920	HL920 PURPLE	24109207	HL920 VIOLETT
620-75922	HL922 EMERALD	24109223	HL922 SMARAGD
620-75925	HL925 SPECIAL BLACK	24109258	HL925 SPEZIALSCHWARZ
620-75928	HL928 BRILLIANT YELLOW	24109282	HL928 BRILLANTGELB
620-75934	HG934 YELLOW	24109347	HG934 GELB
620-75936	HL936 CRIMSON	24109363	HL936 PURPUR
620-75938	HG938 DARK BLUE	24109380	HG938 DUNKELBLAU
620-75943	HS943 GRANADA RED	24109436	HS943 GRANADAROT
620-75944	HG944 BRIGHT RED	24109444	HG944 LEUCHTROT

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PRODUCT CODE (AUS)	PRODUCT NAME	ARTICLE NUMBER	PRODUCT NAME
620-75947	HL947 TRANSPARENT GREEN	24109479	HL947 GRUNLASUR
620-75948	HL948 TRANSPARENT BLUE	24109487	HL948 BLAULASUR
620-75955	HL955 TRANSPARENT OCHRE	24109550	HL955 OCKERLASUR
620-75956	HL956 TRANSPARENT RED OXIDE	24109568	HL956 OXIDROTLASUR
620-75960	HL960 BRILLIANT BLUE	24109606	HL960 BRILLANTBLAU
620-75970	HL970 TRANSPARENT PURPLE	24109703	HL970 VIOLETTLASUR

UN Number : 1263
 Correct Shipping Name : PAINT
 Dangerous Goods Class : 3
 Subsidiary Risk : Not Applicable
 Hazchem : 3[Y]
 Packing Group : III
 Poisons Schedule (AU) : S5
 Poisons Schedule (NZ) : S4
 Pack Size /Container Type : 3 and 1Lts open head metal cans.

Use

Recommended Uses : Paint tinters used in coating metal mainly in the auto refinish industry.
 Method of Application : The tinters will be mixed for the appropriate colour and sprayed on metal in the auto-refinish industry.

Physical Description/Properties

Specific Gravity (kg/l) : 0.9 to 1.4 Boiling range (°C)* : 122- 200
 Flash Point (closed cup)* : + 34° C Vapour Pressure (kPa)* : 1.3 (approx.)
 Flammability Limits* (%volume) LEL: 0.8 UEL: 8.0 Vapour Density (air =1) : >1
 Auto-ignition Temperature : 375 % Volatiles : 35 to 42
 Solubility in water : Insoluble
 Appearance/ Odour : Coloured viscous liquid with mixed petroleum solvent/ ester odour.
 * Properties relate to solvent naphtha, light aromatic and n-butyl acetate.

Other Properties

Shock Sensitivity : Not sensitive Corrosiveness : Not corrosive
 Oxidising Properties : Not an oxidant Odour Threshold (ppm): Not available

Ingredients

The hazardous/dangerous goods components of the product are:

<u>CHEMICAL ENTITY</u>	<u>CAS NUMBER</u>	<u>PROPORTION</u> weight /volume	<u>TLV+</u> TWA	<u>TLV+</u> STEL
Solvent naphtha, light aromatic	64742-95-6	25- <75%	50 ppm	--
1,2,4 Trimethylbenzene	95-63-6	1- <10%	25 ppm	--
n-Butyl acetate	123-86-4	1- <10%	150 ppm	200 ppm
Mesitylene	108-67-8	1- <10%	25 ppm	--
2-methoxy-1-methylethyl acetate	108-65-6	1- <10%	25 ppm (recommended)	--
1,2,3 Trimethylbenzene	526-73-8	1- <10%	25 ppm	--
n-Propylbenzene	103-65-1	1- <10%	25 ppm	75 ppm
2-Butoxyethyl acetate	112-07-2	1- <3%	Not Available	Not available
Xylene	1330-20-7	<2%	80 ppm	150 ppm

620-75911, HG911 REDDISH ORANGE, contains less than 0.5% of 'Pigment Additive C', a chemical imported as a low Volume Chemical under section 21R of the Industrial Chemicals (Notification and Assessment) Act 1989.

'Pigment Additive C' is a skin sensitiser at concentrations of above 1%.

The product also contains polymeric resins, inert inorganic fillers, pigments and additives that are not classified as hazardous by Worksafe Australia or the Standard for the Uniform Scheduling of Drugs and Poisons in Australia. They are not classified as hazardous either because:

- (1) the substance is not on the hazardous chemical lists published by the above authorities or
- (2) the toxicity data does not categorise it as hazardous or
- (3) the concentrations of the entities are below those required for them to be classified as hazardous.

+ TLV or Threshold Limit Value is the maximum exposure level of the chemical entity for which any individual may be subjected and is generally expressed as either the Time Weighted Average (TWA) for an 8 hour/day, 5days/week exposure period or as the Short Term Exposure Limit (STEL) for a 15 minute exposure period with at least 60 minutes interval between two Short term exposures.

The exposure limits stated above are recommended by the National Occupational Health and Safety Commission (NOHSC) and these limits should not be exceeded. When there are no exposure limits published by NOHSC the declared values are recommended values declared by the supplier and this is clearly stated above.

A Sk notification next to the TLV of the component suggests that the component can be absorbed through the skin.

All the chemical entities present in this formulation conform to the NICNAS legislation in Australia.

HEALTH HAZARD INFORMATION

Health Effects

Acute

Swallowed : The product may cause headaches, dizziness, nausea, vomiting, irritation of the mucousal membrane and gastro-intestinal disturbances if swallowed. Ingestion of larger quantities could result in an anaesthetical effect and cause unconsciousness.

Eye: On entering the eye the product could cause slight to moderate irritation. Swelling of the eye is likely if the product is left in eye for some time.

Skin: The product may cause drying and de-fatting of skin, that could lead to mild to moderate discomfort. Trimethylbenzenes are skin irritants.

Inhaled: Inhalation of high concentrations of vapours can produce irritation of the respiratory tract, central nervous system. Trimethylbenzenes and mesitylene are irritants by inhalation.

Chronic

Repeated and prolonged liquid contact may cause skin dryness and dermatitis.

Recurrent overexposure may also result in liver, kidney damage and blood disorders.

Ingestion at of product at high concentrations may cause pulmonary edema, nausea, vomiting and abdominal pain.

Animal studies have shown that compounds similar to 2-methoxy-1-methylethyl acetate can cause haemolysis of circulating red blood cells in rats, however there is no evidence of a similar nature in humans. There was no evidence of any effect of 2-methoxy-1-methylethyl acetate on the bone marrow or testis in animals but kidney damage and increased liver weight have been reported in rats. The amount of 2-methoxy-1-methylethyl acetate is very small in the product, for it to have any adverse effect.

However, as with any industrial chemical ingestion, inhalation of and contact with the product must be avoided via good industrial hygiene practices.

First Aid

Swallowed : If swallowed do NOT induce vomiting, give a glass of water, only if the patient is conscious. and contact a doctor or Poisons Information Centre. If vomiting, place patients face downwards and below hip level in order to prevent vomit from entering lungs.

Eye: Flush patient's eyes with plenty of water for at least 15 minutes and contact a doctor.

Skin: Take off contaminated clothing, wipe product from skin using dry cotton cloth and flush skin thoroughly with plenty of soap and water. Launder contaminated clothing before reusing.

Inhalation: Remove patient to fresh air. Keep patient warm and comfortable Apply artificial respiration if necessary and contact a doctor or Poisons Information Centre.

ADVICE TO DOCTOR

Treat symptomatically. Aspiration is a danger. If contents of the stomach have to be

emptied, experienced medical staff only should perform the procedure of Gastric lavage with cuffed endotracheal tube to prevent further aspiration into lungs.

PRECAUTIONS FOR USE

Exposure Standards: No National Exposure Standard has been allocated for this product.

The exposure standards are usually expressed in terms of the TWA for the chemical. TWA is the time weighted average concentration of atmospheric contaminant to which nearly all workers may be repeatedly exposed, for a normal 8-hour work day and a 40 hour work week, year after year, without adverse effect. In Australia these values are published in the Exposure Standards for Atmospheric Contaminants in the Occupational Environment published by Worksafe Australia.

The TWA and STEL values for chemical entities in this product have been declared on page 2 of this data sheet. The recommended TWA for this product is 25 ppm, total vapour in air. Maintain all vapour concentrations below this level and keep all concentrations of each entity below the established values.

STEL means a 15-minute TWA exposure that should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. The STEL values have been declared on page 2 of this data sheet.

Engineering Controls

Product is flammable, therefore keep away from all sources of ignition, direct sunlight, flames, hot surfaces, electrical, static, or frictional sparks. Containers should be earthed during pouring or mixing.

Product to be used only in well-ventilated areas equipped with adequate mechanical exhaust systems. Avoid all sources of ignition. Carry out mixing, reduction and application of this product in a spray booth fitted with an effective exhaust system and comply with local regulations applicable to spray painting. Spray booth selection, construction, maintenance and operation should be carried out according to Australian Standard AS/NZS 4114. Isolate spray booth from unprotected personnel when spraying is being carried out. Keep all containers and all vessels closed with a lid, when the product is not being used.

Personal Protection

Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, respirators certified for organic vapours and conforming to AS1715/1716 to avoid inhalation of solvent vapours and fine particles. When spraying isocyanate-containing paint, positive pressure air supplied respirators should be worn.

Hand protection:

For handling, use solvent impermeable gloves conforming to AS2161.

Barrier creams should not be relied upon to protect against exposure and hands should be washed immediately after using the product.

Eye protection:

Use safety goggles or face-shields designed to protect against splash of liquids that have been selected and fitted in accordance with AS1336 and complying with AS/NZS 1337.

Skin protection:

Personnel should wear impervious anti-static clothing conforming to AS2919 and AS3765.1.

Anti-static natural fibre or heat resistant synthetic fibre suits e.g.; TYVEK® suits and isolate the spray booth from unprotected personnel.

When the product is mixed with poly isocyanate hardener before spraying, always wear an air-

supplied respirator and full-face mask, impermeable gloves and total skin protection. Isolate spray booth from other unprotected personnel when spraying is being carried out.

Flammability

The product is a Class 3, PG III, flammable liquid with a flash point of +34°C. Vapour/air mixtures may ignite explosively and flashback along the vapour trail could occur.

Keep away from all sources of ignition, direct sunlight, flames, hot surfaces, electrical, static, or frictional sparks. Containers should be earthed during pouring or mixing. Do not allow smoking near the container of the product.

SAFE HANDLING INFORMATION

Storage and Transport

Correct Shipping Name: Paint

UN No: 1263

The product is a Class 3 (FLAMMABLE LIQUID), PG III dangerous good with a Hazchem of 3[Y] and must be stored and transported accordingly.

Keep containers tightly closed in a well-ventilated area, away from all sources of ignition and direct sunlight.

The product is flammable and must be stored in a dangerous goods store complying with Commonwealth, State and local regulations. Store in compliance with the regulations for storage of flammable liquids and the Australian Standard for the Storage of Flammable and Combustible Liquids (AS1940).

Crash repair shops and distributor stores must comply with The Australian New Zealand Standard " The storage and handling of mixed classes of dangerous goods in packages and intermediate bulk containers" (AS/NZS 3833:1998).

Transport within Australia must be in accordance with the Australian Dangerous Goods Code (6th Edition).

Do not load on the same vehicle as Classes 2.1(bulk), 2.3, 4.2, 5.1, 5.2 or 7 Dangerous Goods.

Spills and Disposal

Wear personal protection recommended in PERSONAL PROTECTION subsection, when cleaning spill. Keep all unprotected personnel and people away. Remove all sources of ignition. Shut off source of spill if safely possible- avoid becoming a casualty. Avoid breathing vapours. Ventilate the area. Contain and absorb spilt material on earth/sand or any other approved non-reactive absorbent and transfer adsorbed material, with non-sparking equipment, into marked sealable drums for disposal.

Seal, mark and label all drums for hazard- FLAMMABILITY and HARMFUL properties.

Prevent entry into drains, sewers and waterways.

Contact the State Waste Disposal Authorities, inform them of the nature of the material and make arrangements for disposal according to local, state and federal regulations.

Fire/Explosion Hazard

The product is a Class 3 (FLAMMABLE LIQUID), Packing Group III, Dangerous Good with a Hazchem of 3[Y]. Vapour/air mixtures may ignite explosively and flashback along the vapour trail could occur.

On burning the product produces dense black smoke, oxides of Carbon and hydrocarbons. Cool closed containers exposed to fire with water spray. Fire fighters should wear breathing apparatus and full protective gear. Fight fires with alcohol resistant foam, Carbon dioxide or dry powder.

Prevent water/chemicals used to fight fire from entering drains or watercourses.

CONTACT POINT

Technical Service Manager or Supervisor

Working Hours call (02) 9627 4422

Material Safety Data Sheet

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SPIES HECKER Australia informs its users that:

This information is presented in good faith and compiled from various sources believed to be accurate on knowledge and experience, available on the day of publication of this Material Safety Data Sheet.

All data herein is to describe products only in terms of health and safety requirements and should not therefore be construed as guaranteeing any specific physical or qualitative properties. The users' working conditions are beyond our knowledge and control and therefore this data sheet does not serve as any warranty or guarantee for safe use of this product.

As the products performance and suitability depends on various factors, the purchasers of our products should determine for themselves whether the product is suitable for their particular use. All sales are subject to the standard terms and conditions contained in the invoice.

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