

# Material Safety Data Sheet

Prepared by Chem Alert

Product Name **2990 HARD-HAT STAIN BLOCKER**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** SUPERIOR COATINGS AUSTRALIA  
**Address** Factory 14, 8-9 Gabrielle Court, Bayswater North Victoria, 3153, AUSTRALIA  
**Telephone** + 61 3 9761 7331  
**Fax** + 61 3 9761 7337  
**Emergency** + 61 3 9761 7331

**Synonyms** HARD HAT STAIN BLOCKER 2990.

**Uses** STAIN PREVENTION.

## 2. HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA**  
**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

**Risk And Safety Phrases** Risk and Safety Phrases are standardised phrases allocated to Hazardous Substances. Risk phrases convey a general description of the physicochemical, environmental and health hazards of a substance. Safety phrases provide information on safe storage, handling, disposal, personal protection and first aid.

### RISK PHRASES

R12 Extremely Flammable.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

### SAFETY PHRASES

S2 Keep out of reach of children.  
S23 Do not breathe gas/fumes/vapour/spray (where applicable).  
S24 Avoid contact with skin.  
S51 Use only in well ventilated areas.  
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
ALKANES, C7-C10, ISO		10 - 25%	90622-56-3
PROPANE	C3-H8	10 - 25%	74-98-6
BUTANE	C4-H10	10 - 25%	106-97-8
NAPHTHALENE, BIS(1-METHYLETHYL)-	C16-H20	1 - 2.5%	38640-62-9

## 4. FIRST AID MEASURES

**Eye** Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

**Inhalation** Leave area of exposure immediately. If assisting a victim avoid becoming a casualty, wear a Type A (Organic vapour) respirator where an inhalation risk exists. If victim is not breathing apply artificial respiration and seek urgent medical attention.

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## 4. FIRST AID MEASURES cont.

- Skin** Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
- Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.
- Advice To Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

- Flammability** Highly flammable aerosol. May evolve toxic gases (eg. carbon oxides, hydrocarbons) when heated to decomposition. Vapours may form explosive mixtures in air. Eliminate all ignition sources, including cigarettes, open flames, spark producing switches/tools, heaters, pilot lights, mobile phones etc. when handling. Aerosol cans may explode above 50 C.
- Fire and Explosion** Highly flammable - explosive vapour. Evacuate area & contact emergency services. Toxic gases (carbon oxides, hydrocarbons) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
- Extinguishing** Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.
- Hazchem Code** 2Y

## 6. ACCIDENTAL RELEASE MEASURES

- Spillage** If can is punctured, clear area of all unprotected personnel and ventilate area. Wear splash-proof goggles, viton/nitrile/neoprene gloves, a Type A-Class P1 (Organic vapour, Particulate) respirator (where an inhalation risk exists) and coveralls. Collect and allow to discharge outdoors. Absorb residues with sand or similar and place in clean containers for disposal.

## 7. HANDLING AND STORAGE

- Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas (eg. if container is damaged).
- Storage** Store in cool (< 50 C), dry, well ventilated area, removed from sunlight, heat & ignition sources, oxidising agents, acids, alkalis and foodstuffs. Ensure aerosol containers/ cans are adequately labelled, protected from physical damage and sealed when not in use. Inspect regularly for damaged/ leaking containers. Large storage areas should have appropriate fire protection systems.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation** Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended. Flammable vapours may accumulate in poorly ventilated or confined areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back.

**Exposure Standards** PROPANE (74-98-6)  
 ES-TWA : 1000 ppm (ACGIH; NIOSH)  
 ES-TWA# : Asphyxiant - No values assigned (NOHSC)  
 WES-TWA : Asphyxiant - No values assigned (NOHSC)

BUTANE (106-97-8)  
 ES-TWA : 800 ppm (NIOSH; NOHSC)  
 ES-TWA# : 1000 ppm (ACGIH)

**PPE** Wear splash-proof goggles and nitrile or neoprene gloves. At high vapour levels, wear a Type A-Class P1 (Organic vapour and Particulate) Respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** WHITE LIQUID (AEROSOL DISPENSED)  
**Odour:** SOLVENT-LIKE  
**pH:** NOT AVAILABLE  
**Vapour Pressure:** NOT AVAILABLE  
**Vapour Density:** NOT AVAILABLE  
**Boiling Point:** -40 C  
**Melting Point:** NOT AVAILABLE  
**Evaporation Rate:** NOT AVAILABLE  
**Solubility (water):** INSOLUBLE  
**Specific Gravity:** 0.85  
**% Volatiles:** 86.4 %  
**Flammability:** HIGHLY FLAMMABLE  
**Flash Point:** -70 C (cc)  
**Upper Explosion Limit:** 12 %  
**Lower Explosion Limit:** 2 %  
**Autoignition Temperature:** NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

**Reactivity** Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulfuric acid), strong alkalis (eg. hydroxides), heat and ignition sources.

**Decomposition Products** carbon oxides, hydrocarbons) when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

- Health Hazard Summary** Low to moderate toxicity - irritant. This product may only have the potential to cause adverse health effects if intentionally misused (eg. deliberately inhaling contents). Over exposure may result in adverse effects to the central nervous system. Use safe work practices to avoid eye or skin contact and vapour inhalation.
- Eye** Irritant. Exposure may result in lacrimation, irritation, pain and redness.
- Inhalation** Irritant. Inhalation may cause irritation to the respiratory system, nose and throat irritation, coughing, and headache. Over exposure may result in nausea, dizziness and drowsiness.
- Skin** Irritant. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis.
- Ingestion** Low to moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain and drowsiness with large doses. Aspiration may result in chemical pneumonitis and pulmonary oedema. Ingestion is considered unlikely due to product form (ie. aerosol).
- Toxicity Data** PROPANE (74-98-6)  
LC50 (Inhalation) : 50,000 ppm
- BUTANE (106-97-8)  
LC50 (Inhalation) : 658 g/m<sup>3</sup>/4 hours (rat)

## 12. ECOLOGICAL INFORMATION

- Environment** Aliphatic hydrocarbons behave differently in the environment depending on their size. WATER: Light aliphatics volatilise rapidly from water (half life - few hours). Bioconcentration should not be significant. SOIL: Light aliphatics biodegrade quickly in soil and water, heavy aliphatics biodegrade very slowly. ATMOSPHERE: Vapour-phase aliphatics will degrade by reaction with hydroxyl radicals. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

- Waste Disposal** For small amounts absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer for additional information.
- Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

- Transport** Class 2.1 Flammable gas. Do not transport with chemicals of class; 1 (Explosives), 3 (Flammable liquids), 4.1 (Flammable solids), 4.2 (Spontaneously combustibles), 4.3 (Dangerous when wet), 5.1 (Oxidising agents), 5.2 (Organic Peroxides), 7 (Radioactives) and foodstuffs.
- UN Number** 1950  
**Shipping Name** AEROSOLS  
**DG Class** 2.1

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## 14. TRANSPORT INFORMATION cont.

**Subsidiary Risk(s)** None Allocated  
**Packing Group** None Allocated  
**Hazchem Code** 2Y

**IMDG**  
**UN Number** 1950  
**DG Class** 2.1  
**Subsidiary Risk(s)** None Allocated  
**Packing Group** None Allocated

**IATA**  
**UN Number** 1950  
**DG Class** 2.1  
**Subsidiary Risk(s)** None Allocated  
**Packing Group** None Allocated  
**Inhalation** None Allocated  
**Packing Group**

## 15. REGULATORY INFORMATION

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

**Poison Schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

## 16. OTHER INFORMATION

**Additional Information** AEROSOL CANS may explode at temperatures approaching 50 C.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**COLOUR RATING SYSTEM:** Chem Alert reports are assigned a colour rating of Green, Amber or Red for the purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**  
The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only.

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## 16. OTHER INFORMATION cont.

Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

### ABBREVIATIONS:

mg/m<sup>3</sup> - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

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**Report Status** Chem Alert reports are compiled as an independent source of information by RMT's scientific department. The information is based on the latest chemical and toxicological research, and in compliance with relevant standards, guidance notes and legislation (where applicable). The Chem Alert report is not intended as a replacement to the manufacturer's original MSDS that is provided to Chem Alert subscribers for convenience. In many instances, Chem Alert reports are compiled on behalf of manufacturers, in which case they serve as the "Manufacturer's MSDS" and are clearly identified as such on the relevant reports.

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