

Material Safety Data Sheet

Prepared by Chem Alert

Product Name INDUSTRIAL FLOOR KIT (BASE)

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 9182 402 - IDENTIFICATION NUMBER, 9904132 SILVER GREY , EPOXYSHIELD INDUSTRIAL FLOOR (BASE), SILVER GRAY, SILVER GREY 9904132 .

Uses COATING, EPOXY COATING, TWO COMPONENT EPOXY SYSTEM.

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
 R10 Flammable.
 R20/21 Harmful by inhalation and in contact with skin.

SAFETY PHRASES
 S2 Keep out of reach of children.
 S25 Avoid contact with eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
XYLENE	C8-H10	<15%	1330-20-7
METHYL ISOBUTYL KETONE	C6-H12-O	<5%	108-10-1
ETHYL BENZENE	C8-H10	<5%	100-41-4
EPOXY RESIN-OXIRANE, BISPHENOL HOMOPOLYMER		<50%	25085-99-8
TALC	H2-O3-Si.3/4Mg	<25%	14807-96-6
TITANIUM DIOXIDE	Ti-O2	<10%	13463-67-7
CALCIUM CARBONATE	Ca-C-O3	<5%	1317-65-3

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 other than minor symptoms occur, seek immediate medical attention. If assisting a victim avoid becoming a casualty, wear a Type A (Organic vapour) respirator. If victim is not breathing apply artificial respiration.

Skin Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation

Colour Rating
AMBER

Material Safety Data Sheet

Prepared by Chem Alert

Product Name **INDUSTRIAL FLOOR KIT (BASE)**

4. FIRST AID MEASURES cont.

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.

Advice To Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Flammable. May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Earth containers when dispensing fluids

Fire and Explosion Flammable. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon oxides, phenols) may be evolved. 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 3[Y]

6. ACCIDENTAL RELEASE MEASURES

Spillage If spilt (bulk), contact emergency services where appropriate. Wear splash-proof goggles, PVA/viton gloves, a Type A (Organic vapour) respirator (or Air-line respirator in poorly ventilated areas), coveralls and boots. Ventilate and clear area of all unprotected personnel. Eliminate all heat and ignition sources. Absorb spill with sand or similar, collect and place in sealable 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, dry, well ventilated area, removed from oxidising agents, acids, alkalis, direct sunlight, heat or ignition sources, foodstuffs, out of direct sunlight and out of the reach of children. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate fire protection.

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/ explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below

**Colour
Rating
AMBER**

Material Safety Data Sheet

Prepared by Chem Alert

Product Name **INDUSTRIAL FLOOR KIT (BASE)**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION cont.

the recommended exposure standard.

Exposure Standards

XYLENE (1330-20-7)
 ES-TWA : 80 ppm (NOHSC)
 ES-TWA# : 100 ppm (ACGIH; NIOSH)
 ES-STEL : 150 ppm (NIOSH; NOHSC)
 WES-TWA : 80 ppm (NOHSC)

METHYL ISOBUTYL KETONE (108-10-1)
 ES-TWA : 50 ppm (205 mg/m³) (SKIN)
 ES-STEL : 75 ppm (307 mg/m³)
 WES-TWA : 50 ppm (205 mg/m³)

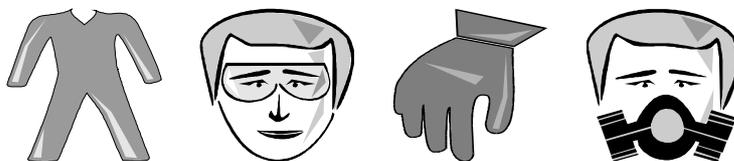
ETHYL BENZENE (100-41-4)
 ES-TWA : 100 ppm (ACGIH; NIOSH)
 ES-STEL : 125 ppm (ACGIH; NIOSH)
 WES-TWA : 100 ppm (NOHSC)

TALC (14807-96-6)
 ES-TWA : 2.5 mg/m³ (Respirable dust)
 WES-TWA : 2 mg/m³

TITANIUM DIOXIDE (13463-67-7)
 ES-TWA : 10 mg/m³
 WES-TWA : 10 mg/m³

CALCIUM CARBONATE (1317-65-3)
 ES-TWA : 10 mg/m³
 WES-TWA : 10 mg/m³

PPE Wear coveralls, splash-proof goggles, a Type A (Organic vapour) Respirator and PVA or viton (R) gloves. If sanding dry product, wear a Class P1 (Particulate) Respirator. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls and an Air-line respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: LIQUID
Odour: SOLVENT ODOUR
pH: NOT AVAILABLE
Vapour Pressure: NOT AVAILABLE
Vapour Density: > 1 (Air = 1)
Boiling Point: 47 - 140 C
Melting Point: NOT AVAILABLE

Colour Rating
AMBER

Material Safety Data Sheet

Prepared by Chem Alert

Product Name **INDUSTRIAL FLOOR KIT (BASE)**

9. PHYSICAL AND CHEMICAL PROPERTIES cont.

Evaporation Rate: < 1 (Ether = 1)
Solubility (water): SLIGHTLY SOLUBLE
Specific Gravity: 1.283
% Volatiles: NOT AVAILABLE
Flammability: FLAMMABLE
Flash Point: 26.7 C
Upper Explosion Limit: 8.0 %
Lower Explosion Limit: 1.0 %
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 May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Moderate toxicity - irritant. This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and vapour inhalation. Skin sensitisation may result with exposure to epoxy resins. Chronic exposure to organic solvents may result in liver, kidney and CNS damage.

Eye Irritant. Exposure may result in lacrimation, irritation, pain and redness.

Inhalation Irritant - narcotic. Over exposure may result in irritation of the nose and throat, nausea and vomiting. At high levels dizziness, breathing difficulties, pulmonary oedema and in some cases unconsciousness. Chronic exposure may result in anaemia, liver, kidney and nerve damage.

Skin Irritant. Contact may result in skin rash, dermatitis and sensitisation, which is common with exposure to epoxy resins. Toxic effects reported through absorption.

Ingestion Moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue, dizziness, drowsiness and unconsciousness with large doses. Aspiration may result in chemical pneumonitis and pulmonary oedema.

Toxicity Data XYLENE (1330-20-7)
LD50 (Skin) : >1700 mg/kg (rabbit)
LD50 (Ingestion) : 4300 mg/kg (rat)
Carcinogenicity : Unclassifiable carcinogenicity in humans (IARC Group 3)

METHYL ISOBUTYL KETONE (108-10-1)
LC50 (Inhalation) : 23300 mg/m³ (rat)
LD50 (Skin) : > 20 mL/kg (rabbit)
LD50 (Ingestion) : 1600 mg/kg (guinea pig)

ETHYL BENZENE (100-41-4)
LC50 (Inhalation) : 50 g/m³/2 hours (mouse)
LD50 (Skin) : 17800 mg/kg (rabbit)

Colour
Rating
AMBER

Material Safety Data Sheet

Prepared by Chem Alert

Product Name **INDUSTRIAL FLOOR KIT (BASE)**

11. TOXICOLOGICAL INFORMATION cont.

LD50 (Ingestion) : 3500 mg/kg (rat)

EPOXY RESIN-OXIRANE, BISPHENOL HOMOPOLYMER (25085-99-8)

LD50 (Skin) : 20,000 mg/kg

LD50 (Ingestion) : 2-19 g/kg (rat)

12. ECOLOGICAL INFORMATION

Environment If aromatic hydrocarbons are released to soil, they will evaporate from near-surface soil & leach to groundwater. Biodegradation occurs in soil & groundwater but may be slow, especially at high concentrations, which can be toxic to microorganisms. Will exist largely as vapour in air. Half life in atmosphere depends on particular hydrocarbon (eg 1-2 days (xylene); 3 hrs-1 day (toluene)).

13. DISPOSAL CONSIDERATIONS

Waste Disposal Mix parts A + B together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer for additional information. Prevent contamination of drains or waterways as environmental damage may result.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Transport Class 3 Flammable liquid. Do not transport with chemicals of class; 1 (Explosives), 2.1/ 2.3 (Flammable/ Toxic gases), 4.2 (Spontaneously combustibles), 5.1 (Oxidising agents), 5.2 (Organic peroxides), 6 (Toxics), 7 (Radioactives) and foodstuffs.

UN Number 1263

Shipping Name PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

DG Class 3

Subsidiary Risk(s) None Allocated

Packing Group III

Hazchem Code 3[Y]

15. REGULATORY INFORMATION

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

Poison Schedule Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Colour
Rating
AMBER

Material Safety Data Sheet

Prepared by Chem Alert

Product Name **INDUSTRIAL FLOOR KIT (BASE)**

16. OTHER INFORMATION

Additional Information

This product is used in conjunction with Epoxyshield Industrial Floor (Immersion Activator). Please consult the appropriate Chem Alert report prior to use.

WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (eg. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

EPOXY - PHENOXY RESINS AND POLYURETHANES: Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear a full face air-line respirator, full length chemically resistant coveralls and gloves. Further, if an individual is to enter an enclosed booth where a vapour or gas curing process is occurring, an air-line respirator is required. Once cured, these resins are considered non toxic.

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. 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/m³ - 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.

**Colour
Rating
AMBER**



Superior Coatings
(Aust) Pty Ltd

Material Safety Data Sheet

Prepared by Chem Alert

Product Name **INDUSTRIAL FLOOR KIT (BASE)**

Report Reviewed 24th January 2006

Date Printed 24th January 2006

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.

Prepared By Risk Management Technologies
5 Ventnor Avenue, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Web: www.rmt.com.au

**Colour
Rating
AMBER**