

Material Safety Data Sheet

Prepared by Chem Alert

Product Name INDUSTRIAL FLOOR KIT (IMMERSION ACTIVATOR)

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
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Synonyms 9102 402 - IDENTIFICATION NUMBER, 9904072 IMMERSION ACTIVATOR, EPOXYSHIELD INDUSTRIAL FLOOR (IMMERSION ACTIVATOR), IMMERSION ACTIVATOR 9904072.

Uses COATING, ACTIVATOR, 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
ETHYL BENZENE	C8-H10	<5%	100-41-4
CALCIUM CARBONATE	Ca-C-O3	<60%	1317-65-3
POLYAMIDE RESIN		<25%	Not Available
N-BUTANOL	C4-H10-O	<10%	71-36-3

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 develops. Launder clothing before reuse.

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4. FIRST AID MEASURES cont.

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 liquid. May evolve toxic gases (carbon/ nitrogen oxides, hydrocarbons, amines, ammonia) 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 (carbon/ nitrogen oxides, hydrocarbons, amines, ammonia) 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 out of direct sunlight and out of the reach of children, in a cool, dry, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids (sulfuric acid), heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

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 the recommended exposure standard.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION cont.

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)

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

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

N-BUTANOL (71-36-3)
 ES-TWA : 50 ppm (152 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: 117.8 - 140 C
Melting Point: NOT AVAILABLE
Evaporation Rate: < 1 (Ether = 1)
Solubility (water): SLIGHTLY SOLUBLE
Specific Gravity: 1.45
% Volatiles: NOT AVAILABLE
Flammability: FLAMMABLE
Flash Point: 26.7 C
Upper Explosion Limit: 10.7 %
Lower Explosion Limit: 1.0 %
Autoignition Temperature: NOT AVAILABLE

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10. STABILITY AND REACTIVITY

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

Decomposition Products May evolve toxic gases (carbon/ nitrogen oxides, hydrocarbons, amines, ammonia) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Toxic - corrosive. This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and vapour generation - inhalation. Chronic exposure may result in loss of appetite, tremors, anaemia, skin and respiratory sensitisation, liver, kidney and nerve damage.

Eye Corrosive - severe irritant. May result in pain, redness, corneal burns and ulceration with possible permanent damage with prolonged contact.

Inhalation Narcotic - slightly corrosive. Over exposure may result in respiratory tract irritation, loss of appetite, nausea & vomiting. At high levels; respiratory sensitisation with asthma like symptoms, pulmonary oedema and unconsciousness. Chronic exposure may result in anaemia, liver, kidney and nerve damage.

Skin Corrosive - irritant. Prolonged contact may result in drying and defatting of the skin, dermatitis, burns and possible sensitisation. Toxic effects may result through absorption.

Ingestion Corrosive - toxic. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. Large doses; gastrointestinal tract ulceration, unconsciousness and convulsions.

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)

ETHYL BENZENE (100-41-4)
LC50 (Inhalation) : 50 g/m³/2 hours (mouse)
LD50 (Skin) : 17800 mg/kg (rabbit)
LD50 (Ingestion) : 3500 mg/kg (rat)

N-BUTANOL (71-36-3)
LC50 (Inhalation) : 8000 ppm/4 hours (rat)
LD50 (Skin) : 3200 mg/kg (mouse)
LD50 (Ingestion) : 790 mg/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)).

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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 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 The polyamide resin in this product is described as polyamide resin solution (CAS # 68424-41-9). This product is used in conjunction with the product Epoxyshield Industrial Floor (Base). 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.

SYNERGISM - ANTAGONISM: Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.

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

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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.

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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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