MOBIHEL FINE PUTTY



Version Revision SDS Number: Date of last issue: -

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MOBIHEL FINE PUTTY

Product code : 40090403

Manufacturer or supplier's details

Details of the supplier of the safety data sheet

Company : Helios Coatings Australia Pty Ltd

50 Clapham Road SEFTON NSW 2162

Australia

Telephone : 61 2 9645 3188 E-mail address Responsi- : 61 2 9645 3188

ble/issuing person info@helioscoatings.com.au

Emergency telephone number

112 (mobile) Ambulance 000, Poisons Information Centre: 131 126

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Skin corrosion/irritation : Category 2

Serious eye damage/eye irri-

tation

Category 2A

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity -

repeated exposure

Category 1

GHS label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

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H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated

exposure.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
talc	14807-96-6	>= 30 -< 60
styrene	100-42-5	>= 10 -< 20
Limestone	1317-65-3	>= 10 -< 30
barium sulphate, natural	7727-43-7	< 10
titanium dioxide	13463-67-7	< 10
toluene	108-88-3	< 3

SECTION 4. FIRST AID MEASURES

In case of skin contact

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician. If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms

and effects, both acute and

: None known.

delayed

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

No hazardous combustion products are known

Specific extinguishing meth- : Collect contaminated fire extinguishing water separately. This

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ods must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Hazchem Code : •2YE

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment. Remove all sources of ignition.

Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours).

Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Hygiene measures : When using do not eat or drink.

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When using do not smoke.

Wash hands before breaks and at the end of workday.

Conditions for safe storage : No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis			
Talc	14807-96-6	TWA	2.5 mg/m3	AU OEL			
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH			
styrene	100-42-5	TWA	50 ppm 213 mg/m3	AU OEL			
		STEL	100 ppm 426 mg/m3	AU OEL			
		TWA	10 ppm	ACGIH			
		STEL	20 ppm	ACGIH			
Limestone	1317-65-3	TWA	10 mg/m3 (Calcium car- bonate)	AU OEL			
barium sulfate	7727-43-7	TWA	10 mg/m3	AU OEL			
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH			
titanium dioxide	13463-67-7	TWA	10 mg/m3	AU OEL			
		TWA (Respirable particulate matter)	0.2 mg/m3 (Titanium dioxide)	ACGIH			
		TWA (Respirable particulate matter)	2.5 mg/m3 (Titanium dioxide)	ACGIH			
toluene	108-88-3	TWA	50 ppm 191 mg/m3	AU OEL			
	Further inform	Further information: Skin absorption					
		STEL	150 ppm 574 mg/m3	AU OEL			
	Further information: Skin absorption						

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TWA 20 ppm ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
styrene	100-42-5	Mandelic acid plus phenylgly- oxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	400 mg/g Creatinine	ACGIH BEI
		Styrene	Urine	End of shift (As soon as possible after exposure ceases)	40 μg/l	ACGIH BEI
toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Combined particulates and organic vapour type

Filter type Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); DIN EN374

butyl-rubber (> 0,6 mm; < 240 min); DIN EN374 | Viton® (> 0,6 mm; < 240 min); DIN EN374 | PE laminate (> 0,1 mm; < 240 min); DIN EN374 |

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

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Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of

cuts, abrasion, and the contact time.

Eye protection : Equipment should conform to EN 166

Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Colour : in accordance with the product description

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : -31.0 °C

(calculation method (principal components, lowest value))

Boiling point/boiling range : 145 °C

(calculation method (principal components, lowest value))

Flash point : 31 °C

(calculation method (principal components, lowest value))

Evaporation rate : No data available

Flammability (solid, gas) : Static-accumulating flammable liquid., Combustible Solids

Upper explosion limit / Upper

flammability limit

8 %(V)

Lower explosion limit / Lower :

flammability limit

1.1 %(V)

Relative vapour density : 3.6

(Air = 1.0)

Relative density : 1.60

Density : 1.687 - 1.801 g/cm3

Solubility(ies)

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Water solubility : immiscible, partly soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: log Pow: 2.95

Auto-ignition temperature : 490 °C

Decomposition temperature : No decomposition if stored and applied as directed.

Hazardous decomposition products formed under fire condi-

tions.

Viscosity

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Explosive properties : Not applicable

Oxidizing properties : Sustains combustion

VOC : (Directive 2004/42/EC)

250 g/l

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed. Possibility of hazardous reac- : No decomposition if stored and applied as directed.

ons Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Incompatible with strong acids and bases.

Hazardous decomposition : Adequate ventilation is required.

products Heating can release vapours which can be ignited.

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

styrene:

Acute oral toxicity : LD50 Oral (Rat): >= 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): >= 24 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2,650 mg/kg

Limestone:





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Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

toluene:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 28 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

styrene:

Result : irritating

toluene:

Result : irritating

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Components:

styrene:

Result : Eye irritation

Respiratory or skin sensitisation

Product:

Remarks : Causes sensitisation.

Chronic toxicity

Reproductive toxicity

Components:

styrene:

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

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toluene:

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and

fertility, and/or on development, based on animal experiments.

STOT - single exposure

Components:

styrene:

Assessment : May cause respiratory irritation.

toluene:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Components:

styrene:

Assessment : Causes damage to organs through prolonged or repeated

exposure.

toluene:

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Aspiration toxicity

Components:

styrene:

May be fatal if swallowed and enters airways.

toluene:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

styrene:

Toxicity to fish : LC50 (Fish): >= 10 - 12 mg/l

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Toxicity to daphnia and other :

aquatic invertebrates

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

toluene:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Components:

styrene:

Biodegradability : aerobic

Remarks: Readily biodegradable.

anaerobic

Remarks: According to the results of tests of biodegradability

this product is not readily biodegradable.

LC50 (Daphnia (water flea)): >= 4.7 mg/l

Physico-chemical removabil-

itν

Remarks: The product evaporates readily.

Readily biodegradable.

Stability in water : Remarks: Hydrolyses slowly.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

Bioaccumulative potential

Components:

styrene:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 2.95

toluene:

Partition coefficient: n-

eterel/weter

octanol/water

log Pow: 2.65

Mobility in soil

Components:

styrene:

Mobility : Medium: Air

Content: 98.6 %

Medium: Water



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Content: 1.21 %

Medium: Sediment Content: 0.09 %

Medium: Soil Content: 0.09 %

Other adverse effects

Product:

Additional ecological infor-

mation

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3269

Proper shipping name : POLYESTER RESIN KIT

Class : 3 Packing group : III Labels : 3

IATA-DGR

UN/ID No. : UN 3269

Proper shipping name : Polyester resin kit

Class : 3 Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo

aircraft)

Packing instruction (passen: :

: 370

370

ger aircraft)

IMDG-Code

UN number : UN 3269

Proper shipping name : POLYESTER RESIN KIT

Class : 3
Packing group : III
Labels : 3





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EmS Code : F-E, S-D Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

UN number : UN 3269

Proper shipping name : POLYESTER RESIN KIT

Class : 3
Packing group : III
Labels : 3
Hazchem Code : •2YE

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform : Schedule 6

Scheduling of Medicines and

Poisons

Prohibition/Licensing Requirements : There is no applicable prohibition,

authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regula-

tions.

SECTION 16. OTHER INFORMATION

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Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

AU OEL : Australia. Workplace Exposure Standards for Airborne Con-

taminants.

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

AU OEL / TWA : Exposure standard - time weighted average AU OEL / STEL : Exposure standard - short term exposure limit

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AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen. Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumu-

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

lative; WHMIS - Workplace Hazardous Materials Information System

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