

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name **6P 592939 ALODINE 1132 TOUCH-N-PREP COATING**
Synonym(s) *NSN: XXXX-66-150-9101*
 592939 TOUCH-N-PREP ALODINE 1132 • 6P 592939 - PRODUCT CODE • 6P 592939 TOUCH-N-PREP ALODINE 1132 (FORMERLY) • 6P ALODINE 1132 TOUCH-N-PREP • 6P TOUCH-N-PREP ALODINE 1132

1.2 Uses and uses advised against

Use(s) AEROSPACE APPLICATIONS • TOUCH UP PAINT • TOUCH UP PEN

1.3 Details of the supplier of the safety data sheet

Supplier name **AVIALL AUSTRALIA PTY LTD**
Address 20-22 Lindaway Place, Tullamarine, VIC, Australia, 3043
Telephone (03) 9339 3030
Fax (03) 9338 9773
Email melbourne@aviall.com
Website http://www.aviall.com

1.4 Emergency telephone number(s)

Emergency (03) 9339 3000

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS Classification(s) Skin Corrosion/Irritation: Category 2
 Serious Eye Damage / Eye Irritation: Category 2A
 Carcinogenicity: Category 1B

2.2 Label elements

Signal word **DANGER**

Pictograms



Hazard statement(s)

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H350 May cause cancer.

Prevention statement(s)

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P264 Wash thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response statement(s)

P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.
 P321 Specific treatment is advised - see first aid instructions.
 P332 + P337 + P313 If skin or eye irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before re-use.

Storage statement(s)

P405 Store locked up.

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Disposal statement(s)
P501 Dispose of contents/container in accordance with relevant regulations.

2.3 Other Hazards
No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

| Ingredient | CAS number | EC number | Content |
|---------------------------|---------------|---------------|-----------|
| CHROMIUM CHROMATE | 24613-89-6 | 246-356-2 | 0.1-1% |
| CHROMIUM TRIOXIDE | 1333-82-0 | 215-607-8 | 0.1-1% |
| WATER | 7732-18-5 | 231-791-2 | >60% |
| NON HAZARDOUS INGREDIENTS | Not Available | Not Available | remainder |

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

First aid facilities Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

No information provided.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic hexavalent chromium oxides when heated to decomposition.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

- 3Z
- Alcohol resistant foam is the preferred firefighting medium
- 3 Foam
- Z Self Contained Breathing apparatus and protective gloves.

6. ACCIDENTAL RELEASE MEASURES

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6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Contamination with incompatibles may cause fire or explosion. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

| Substance | Reference | TWA | | STEL | |
|--|-----------|-----|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Chromium (VI) Compounds (as Cr), water insoluble | SWA (AUS) | -- | 0.05 | -- | -- |
| Chromium (VI) compounds | SWA (AUS) | -- | 0.05 | -- | -- |

Biological limits

| Ingredient | Reference | Determinant | Sampling time | BEI |
|-------------------|-----------|-------------------------|---------------------------------|---------|
| CHROMIUM CHROMATE | ACGIH BEI | Total chromium in urine | End of shift at end of workweek | 25 µg/L |
| | ACGIH BEI | Total chromium in urine | Increase during shift | 10 µg/L |
| CHROMIUM TRIOXIDE | ACGIH BEI | Total chromium in urine | End of shift at end of workweek | 25 µg/L |
| | ACGIH BEI | Total chromium in urine | Increase during shift | 10 µg/L |

8.2 Exposure controls

Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

- Eye/Face** Wear splash-proof goggles.
- Hand** Wear PVC or rubber gloves.
- Body** Wear coveralls.
- Respiratory** Where an inhalation risk exists, wear a Type B (Inorganic gases and vapours) respirator.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---------------------------|-----------------|
| Appearance | BROWN LIQUID |
| Odour | MILD ODOUR |
| Odour Threshold | NOT AVAILABLE |
| pH | 2.2 to 2.5 |
| Melting Point | < 0°C |
| Boiling Point | > 100°C |
| Flash Point | NOT RELEVANT |
| Evaporation Rate | AS FOR WATER |
| Flammability | NON FLAMMABLE |
| Upper Explosion Limit | NOT RELEVANT |
| Lower Explosion Limit | NOT RELEVANT |
| Vapour Pressure | 18 mm Hg @ 20°C |
| Vapour Density | NOT AVAILABLE |
| Solubility (water) | SOLUBLE |
| Partition Coefficient | NOT AVAILABLE |
| Autoignition Temperature | NOT AVAILABLE |
| Decomposition Temperature | NOT AVAILABLE |
| Viscosity | NOT AVAILABLE |
| Explosive Properties | NOT AVAILABLE |
| Oxidising Properties | NOT AVAILABLE |
| Specific Gravity | 1.1 to 1.2 |

9.2 Other information

% Volatiles > 60 % (Water)

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with combustible materials, reducing agents (e.g. sulphites), metals and some plastics and resins.

10.6 Hazardous decomposition products

May evolve toxic hexavalent chromium oxides when heated to decomposition.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| | |
|------------------------------|---|
| Health hazard summary | Harmful - irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. May cause sensitisation by skin contact. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1). |
| Eye | Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact. |
| Inhalation | Irritant. Over exposure may result in irritation of the nose and throat, with coughing. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1). |
| Skin | Irritant. Contact may result in irritation, redness, rash and dermatitis. May be absorbed through skin with harmful effects. May cause sensitisation by skin contact. |
| Ingestion | Harmful. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in dizziness, drowsiness and unconsciousness. Chronic exposure may result in liver and kidney damage. |
| Toxicity data | CHROMIUM TRIOXIDE (1333-82-0) LD50 (Ingestion): 80 mg/kg (rat) LD50 (Intraperitoneal): 14 mg/kg (mouse) LD50 (Intravenous): 9260 ug/kg (rat) LDLo (Skin): 55 mg/kg (rat) LDLo (Subcutaneous): 20 mg/kg (mouse) TCLo (Inhalation): 110 ug/m ³ (human) TDLo (Intravenous): 5 mg/kg (hamster) TDLo (Subcutaneous): 20 mg/kg (mouse) |

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Results of PBT and vPvB assessment

No information provided.

12.6 Other adverse effects

WATER: Chromium (VI) may be reduced to Chromium (III) by organic matter present in water, and may eventually deposit in sediments. Toxic to microorganisms. May bioaccumulate. SOIL: Chromium in the soil may be transported from soil through runoff and leaching of water. ATMOSPHERE: Chromium is primarily removed from the atmosphere by fallout and precipitation and may enter surface water or soil.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

| | |
|-----------------------|--|
| Waste disposal | Add a solution of a mild reducing agent (thiosulphate, bisulphate or ferrous salt, but not carbon or sulphur) to the product. A sulphite or ferrous salt will require addition of 3 M sulphuric acid to promote reduction. Neutralise the solution with soda ash. Absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required). |
| Legislation | Dispose of in accordance with relevant local legislation. |

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

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| | Land Transport (ADG) | Sea Transport (IMDG/IMO) | Air Transport (IATA/ICAO) |
|--|---|-----------------------------|------------------------------|
| 14.1 UN number | 3082 | 3082 | 3082 |
| 14.2 UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | | |
| 14.3 Transport hazard classes | | | |
| DG Class | 9 | 9 | 9 |
| Subsidiary risk(s) | None Allocated | - | - |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | | None Allocated | |
| 14.6 Special precautions for user | | | |
| Hazchem Code | •3Z | | |
| EMS | | F-A, S-F | |

15. REGULATORY INFORMATION

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

| | | |
|-----------------------------|---|--|
| Poison schedule | Classified as a Schedule 6 Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). | |
| Classifications | Carc. - Carcinogen Xi - Irritant | |
| Risk phrases | R36/38: | Irritating to eyes and skin. |
| | R49: | May cause cancer by inhalation. |
| Safety phrases | S24/25: | Avoid contact with skin and eyes. |
| | S45: | In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). |
| | S53: | Avoid exposure - obtain special instructions before use. |
| | S61: | Avoid release to the environment. Refer to special instructions/safety data sheets. |
| Inventory listing(s) | AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt. | |

15.2 Chemical safety assessment

No information provided.

16. OTHER INFORMATION

| | |
|-------------------------------|--|
| Additional information | <p>IARC GROUP 1 - CONFIRMED HUMAN CARCINOGEN. This product contains an ingredient for which there is sufficient evidence to have been classified by the International Agency for Research into Cancer as a human carcinogen. The use of products known to be human carcinogens should be strictly monitored and controlled.</p> <p>CHROMATES - CHROMIUM PRODUCTS: Asthma sufferers, respiratory impaired or previously sensitised (respiratory or skin) individuals are advised to avoid all exposure to chromium or chromate based products.</p> <p>CHROMIUM: The most common form of chromium found in nature and in biological materials is trivalent (III) chromium which is poorly absorbed into the body. Chromium (VI) is readily absorbed where it is converted intracellularly to the carcinogenic chromium (III) form. Chromium (VI) compounds are classified as carcinogenic to humans (IARC Group 1). Chromium (III) is not classifiable as to its carcinogenicity in humans (IARC Group 3).</p> |
|-------------------------------|--|

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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 ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this 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.

COLOUR RATING SYSTEM: RMT has assigned all ChemAlert reports a colour rating of Green, Amber or Red for the sole 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 ChemAlert 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.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

Abbreviations

| | |
|-------------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS # | Chemical Abstract Service number - used to uniquely identify chemical compounds |
| CNS | Central Nervous System |
| EC No. | EC No - European Community Number |
| EMS | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods) |
| GHS | Globally Harmonized System |
| GTEPG | Group Text Emergency Procedure Guide |
| IARC | International Agency for Research on Cancer |
| LC50 | Lethal Concentration, 50% / Median Lethal Concentration |
| LD50 | Lethal Dose, 50% / Median Lethal Dose |
| mg/m ³ | Milligrams per Cubic Metre |
| OEL | Occupational Exposure Limit |
| PEL | Permissible Exposure Limit |
| pH | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| ppm | Parts Per Million |
| REACH | Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals |
| STEL | Short-Term Exposure Limit |
| STOT-RE | Specific target organ toxicity (repeated exposure) |
| STOT-SE | Specific target organ toxicity (single exposure) |
| SUSMP | Standard for the Uniform Scheduling of Medicines and Poisons |
| SWA | Safe Work Australia |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

Report Status

This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this ChemAlert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no

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liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this ChemAlert report.

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End of Report