

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name HENKEL ALODINE 1132 TOUCH-N-PREP COATING
Synonym(s) 1445846 - IDH NUMBER • 1445856 - ITEM NUMBER • ALODINE 1132 TOUCH-N-PREP COATING

1.2 Uses and uses advised against

Use(s) COATING

1.3 Details of the supplier of the safety data sheet

Supplier name KLX AEROSPACE SOLUTIONS PTY LIMITED (FORMERLY INTERTURBINE)
Address 17 Ashtan Pl, Banyo, QLD, Australia, 4014
Telephone (07) 3292 5200
Fax (07) 3292 5220
Email australia@interturbine.com
Website http://www.interturbine.com

1.4 Emergency telephone number(s)

Emergency (07) 3292 5200

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS Classification(s) Acute Toxicity: Oral: Category 4
Acute Toxicity: Skin: Category 4
Skin Corrosion/Irritation: Category 2
Skin Sensitisation: Category 1
Serious Eye Damage / Eye Irritation: Category 2A
Acute Toxicity: Inhalation: Category 2
Respiratory Sensitisation: Category 1
Specific Target Organ Systemic Toxicity (Single Exposure): Category 3
Germ Cell Mutagenicity: Category 1B
Carcinogenicity: Category 1B
Toxic to Reproduction: Category 2
Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2
Aquatic Toxicity (Chronic): Category 3

2.2 Label elements

Signal word

DANGER

Pictograms



Hazard statement(s)

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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- H335 May cause respiratory irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Prevention statement(s)

- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 Wear respiratory protection.

Response statement(s)

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- 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.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P320 Specific treatment is urgent - see first aid instructions.
- P330 Rinse mouth.
- P362 Take off contaminated clothing and wash before re-use.

Storage statement(s)

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

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
ADDITIVE(S)	Not Available	Not Available	remainder
CHROMIUM CHROMATE	24613-89-6	246-356-2	0.1 - 1%
CHROMIUM COMPOUND(S)	Not Available	Not Available	0.1 - 1%

4. FIRST AID MEASURES

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No information provided.

No information provided.

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

No information provided.

5.2 Special hazards arising from the substance or mixture

No information provided.

5.3 Advice for firefighters

No information provided.

5.4 Hazchem code

- 3Z
 - Alcohol Resistant Foam is the preferred firefighting medium. Else use;
 - 3 Normal Foam (protein based foam that is not alcohol resistant).
 - Z Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No information provided.

6.2 Environmental precautions

No information provided.

6.3 Methods of cleaning up

No information provided.

6.4 Reference to other sections

No information provided.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No information provided.

7.2 Conditions for safe storage, including any incompatibilities

No information provided.

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	SWA (AUS)	--	0.05	--	--

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Substance	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Chromium (VI) compounds (as Cr), water soluble	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
			Increase during shift	10 µg/L
CHROMIUM COMPOUND(S)	ACGIH BEI	Total chromium in urine	End of shift at end of workweek	25 µg/L
			Increase during shift	10 µg/L

8.2 Exposure controls

Engineering Controls No information provided.

PPE

- Eye/Face** Wear splash-proof goggles.
- Hand** Wear PVC or rubber gloves.
- Body** Wear coveralls.
- Respiratory** No PPE specified.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	YELLOW TO GREEN LIQUID
Odour	MILD ODOUR
Odour Threshold	NOT AVAILABLE
pH	2.1 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	NOT AVAILABLE
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

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Specific Gravity 1.00 to 1.01

9.2 Other information

% Volatiles NOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information in sections 10.2 to 10.6.

10.2 Chemical stability

No information provided.

10.3 Possibility of hazardous reactions

No information provided.

10.4 Conditions to avoid

No information provided.

10.5 Incompatible materials

No information provided.

10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

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	No LD50 data available for this product.

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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

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

No information provided.

Legislation

Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

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



	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		Marine Pollutant	
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
 Muta. - Mutagen
 N - Dangerous for the environment

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Repr. - Reproductive toxin
 Xi - Irritant
 Xn - Harmful

Risk phrases

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
 R36/37/38: Irritating to eyes, respiratory system and skin.
 R43: May cause sensitisation by skin contact.
 R45: May cause cancer.
 R46: May cause heritable genetic damage.
 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R62: Possible risk of impaired fertility.
 R63: Possible risk of harm to the unborn child.

Safety phrases

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.
 S60: This material and its container must be disposed of as hazardous waste.
 S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

WHS regulatory information

Ingredient name	CAS number	Regulation	Details
CHROMIUM CHROMATE	24613-89-6	Restricted Hazardous Chemicals	Chromate. For wet abrasive blasting. Chromium & its compounds. For abrasive blasting >0.5%.
CHROMIUM COMPOUND(S)	-	Restricted Hazardous Chemicals	Chromium & its compounds. For abrasive blasting >0.5% (except as specified for wet blasting).

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 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.

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.

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).

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

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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.

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
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
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 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