

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: BRASS BRIGHT R4

Synonyms: Corrosive liquid, Acidic, Inorganic, N.O.S

Use: Brightening and deoxidising brass

Supplier: Advance Chemicals

ABN: 61 005 625 025

Street Address: 4 – 8 Malton Court Altona, 3018

Telephone Number: (03) 9398 4444

Facsimile: (03) 9398 5278

Emergency Telephone: Ted Powell (03) 9398 4444 (Business Hours)
0425 800 022 (After Hours)

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOODS.

Classification of the substance or mixture:

Oxidising solid – category 1 (H271)

Carcinogenicity – category 1A (H350)

Germ cell mutagenicity – category 1B (H340)

Reproductive toxicity – category 2 (H361f)

Acute toxicity – (INHALATION) – category 2 (H330)

Acute toxicity – (DERMAL) – category 3 (H311)

Acute toxicity – (ORAL) – category 3 (H301)

Specific target organ toxicity (repeated exposure) – category 1 (H372)

Skin corrosion – category 1A (H314)

Respiratory sensitisation – category 1 (H334)

Skin sensitisation – category 1 (H317)

Hazardous to the aquatic environment (acute) – category 1 (H410)

Hazardous to the aquatic environment (chronic) – category 1 (H410)

SIGNAL WORD: DANGER



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Hazard Statement(s):

H271 – May cause fire or explosion; strong oxidiser
H350 – May cause cancer
H340 – May cause genetic defects
H361f – Suspected of damaging fertility
H330 – Toxic in contact with skin
H311 – Toxic if swallowed
H301 – Causes damage to organs through prolonged or repeated exposure
H314 – Causes severe skin burns and eye damage
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 – May cause an allergic skin reaction
H410 – very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P220 – Keep away from combustible materials
P221 – Take precaution to avoid mixing with combustibles
P234 – Keep only in original container
P280 – Wear protective gloves/eye protection/ face protection.
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood
P281 – Use personal protective equipment as required
P260 – Do not breathe mist/vapour/spray
P271 – Use only in well-ventilated areas.
P284 – wear respiratory protection
P264 – Wash hands thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P285 – In case of inadequate ventilation wear respiratory protection

Response:

P306 + P360 – IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P371 + P380 + P375 – In case of major fire and large quantities: Evacuate the area. Fight fire remotely due to the risk of explosion.
P370 + P378 – In case of fire: use water fog or water spray for extinction
P308 + P313 – IF exposed or concerned: Get medical advice/attention.
P304 + P340 – IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water
P361 – remove/Take off immediately all contaminated clothing
P363 – Wash contaminated clothing before use.
P330 – Rinse mouth
P342 + P311 – If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

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Storage:

P411 + P225 – Keep stored in a cool place.
P410 – Protect from sunlight
P420 – Store away from other materials.
P405 – Store locked up

Disposal:

P501 – Dispose of contents/containers according to local waste management regulations.

Poison Schedule (Australia): 6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	C.A.S. No.	Proportion	
Chromium trioxide	1333-82-0	10 – 30 %	H271, H350, H361f, H330, H311, H301, H372, H314, H334, H317, H410
Sulphuric acid	7664-93-9	< 10%	H314

4. FIRST AID MEASURES

Inhalation: Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation. SEEK MEDICAL ATTENTION.

Skin Contact: Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. SEEK MEDICAL ATTENTION.

Eye Contact: If contact with eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse into the non-affected eye. SEEK IMMEDIATE MEDICAL ATTENTION.

Ingestion: Immediately wash out mouth with water and then give plenty of water to drink. If swallowed do NOT induce vomiting. If vomiting occurs give plenty of water. SEEK IMMEDIATE MEDICAL ATTENTION.

Notes to Doctor: Chromic acid has a corrosive effect on skin and mucous membranes. Chromium salts are carcinogenic (lungs, nasal cavity and paranasal sinus). Suspected carcinogenic to stomach and larynx.

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5. FIRE FIGHTING MEASURES

Specific Hazards: Not flammable or combustible however may be violently or explosively reactive. Evolves toxic gases on decomposition. May cause combustible or oxidisable materials to burn or explode.

Fire- fighting advice: Wear self-contained breathing apparatus (S.C.B.A) and full protective clothing to minimise skin exposure. Evacuate area- move upwind of fire.

Suitable Extinguishing Media: Water fog or water spray.

Hazchem Code: 2X

Flammability: Non flammable.

6. ACCIDENTAL RELEASE MEASURES

Clear area of all unprotected personnel. Contain- prevent contamination of drains and waterways. Use absorbent (soil or sand, sawdust, inert material, vermiculite). Collect and seal in properly labelled drums for disposal. Neutralise remaining product with lime or soda ash, adjusting pH to 6 – 10. Flush to sewer as a greatly diluted solution. Wear full protective clothing. Self contained breathing apparatus may be needed for prolonged periods of exposure.

7. HANDLING AND STORAGE

Handling advice: Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is, always wash hands before eating, drinking, smoking or using the toilet.

Storage advice: Store in a cool place and out of direct sunlight. Store in a well ventilated area. Store away from oxidising agents. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. Care should be taken especially where the material may be stored or used in glass vessels.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits:

Toxic Dose/ Concentration chromic Acid: TC lo: Inhalation – hamster: 10 ug/m³
Threshold Limit Values Chromic Acid: TLV – TWA 50ug (Cr (VI))/m³

Engineering Controls: Maintain concentration below recommended exposure limit. Use with adequate ventilation. Local exhaust ventilation usually required. Keep containers in a well ventilated area. Avoid breathing product's spray mist.

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Personal Protection Equipment: Wear appropriated respirator where ventilation is inadequate and vapour or mist is generated. The use of facesheild, chemical goggles or safety glasses with side shield protection is recommended. The use of gloves is recommended and where possible contamination of clothes will occur as plastic splash apron, sleeves, overalls and rubber boots is strongly recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Orange coloured liquid.

Boiling Point: not known

Melting Point: not known

Flash Point: Not applicable

Vapour Pressure: Not Known

Vapour Density (Air = 1): Not applicable

Flammability Limits: Not applicable

Specific Gravity: 1.1

pH (1% solution): 1 - 3

Solubility in water: Soluble in all proportions

Corrosiveness: Corrosive if swallowed.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Health Effects:

Ingested: Extremely corrosive. May cause burns to mouth, throat and gastro-intestinal tract. Extremely irritative. Toxic by ingestion.

Eye: Extremely corrosive. Extremely irritating to the eyes. Causes burns and **desquamation**. Can cause corneal burns. May result in permanent or prolonged visual effects or destruction of the eyes.

Skin: Highly corrosive. Causes burns to skin. Burns may not be immediately visible or painful. Healing of affected areas may be slow.

Inhaled: Strong irritant. Vapour is irritant to respiratory tract and mucous membranes. Exposure to high concentrations of vapour or to acid as a mist may lead to lung damage including pulmonary oedema and emphysema. Effects may be delayed

Chronic: May irritate skin on prolonged or repeated exposure to dilute solutions. The use of gloves is strongly recommended. May dermatitis, coughing, laryngitis, breathing difficulties, headaches, vomiting, spasms, and inflammation to the throat. May be fatal. Known carcinogenic material. Can cause teragenic effects.

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12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to Waste Management authority.

14. TRANSPORT INFORMATION

UN Number: 3264

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Dangerous Goods Class: 5.1

Subsidiary risks: 6.1, 8

Packing Group: II

Hazchem Code: 2X

Road and Rail Transport: Classified as Class 8 (Corrosive) Dangerous goods for the purpose of transport via road and rail.



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15. REGULATORY INFORMATION

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Poisons Schedule: 6

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16. OTHER INFORMATION

This S.D.S. is valid for 5 years from the date of issue but may be withdrawn and revised anytime prior to that date. Please ensure that you are using the latest issue.

All information contained in this Safety Data Sheet is as accurate and up-to-date as possible. Since ADVANCE CHEMICALS can not anticipate or control the conditions under which this information can be used, each user should review this information in the specific context of the intended application.

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