Safety Data Sheet Pine Heartwood Indicator Solution A

SDS no. QCRNC1CM • Version 1.0 • Date of issue: 2024-04-28

SECTION 1: Identification

GHS Product identifier

Product name	Pine Heartwood Indicator Solution A
Product number	5543/
Brand	ACR

Recommended use of the chemical and restrictions on use

Laboratory and Analytical Reagent

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4
- Carcinogenicity, Cat. 2
- Serious eye damage/eye irritation, Cat. 2A
- Corrosive to metals, Cat. 1
- Germ cell mutagenicity, Cat. 2
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity following repeated exposure, Cat. 2

- Specific target organ toxicity following single exposure, Cat. 2

GHS label elements, including precautionary statements

Pictograms

Signal word	**Warning**

Hazard statement(s)

H290	May be corrosive to metals
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H371	May cause damage to organs [Blood, CNS]
H373	May cause damage to organs [Blood, CNS] through prolonged or repeated exposure [route]

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original packaging.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physcian if you feel unwell,
P302+P352	IF ON SKIN: Wash with plenty of water/soap
P304+P340	IF INHALED: Remove person to fresh air and keep 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+P311	IF exposed or concerned: Call a POISON CENTER/doctor/physcian
P312	Call a POISON CENTER/doctor/physcian if you feel unwell.
P332+P313	If skin irritation 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.
P390	Absorb spillage to prevent material-damage.
P405	Store locked up.
P406	Store in a corrosive resistant/… container with a resistant inner liner.
P501	Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	CAS no.	Concentration

Water/Aqua/Eau	**7732-18-5**	**88 - 100 % (weight)**
CLASSIFICATIONS: No data available. HAZARDS: No data available.		
O-ANISIDINE HYDROCHLORIDE	**134-29-2**	**<= 10 % (weight)**
CLASSIFICATIONS: Acute toxicity, dermal, Cat. 3; Acute toxicity, inhalation, Cat. 3; Acute toxicity, oral, Cat. 3; Serious eye damage/eye irritation, Cat. 2B; Carcinogenicity, Cat. 2; Germ cell mutagenicity, Cat. 2; Specific target organ toxicity following repeated exposure, Cat. 2; Specific target organ toxicity following single exposure, Cat. 2; Hazardous to the aquatic environment, short-term (acute), Cat. 2. HAZARDS: H301 - Toxic if swallowed; H311 - Toxic in contact with skin; H320 - Causes eye irritation; H331 - Toxic if inhaled; H341 - Suspected of causing genetic defects [route]; H351 - Suspected of causing cancer [route]; H371 - May cause damage to organs [organs, route]; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route]; H401 - Toxic to aquatic life.		
Hydrochloric acid (EC no.: 231-595-7; Index no.: 017-002-01-X)	**7647-01-0**	**<= 2 % (weight)**
CLASSIFICATIONS: Corrosive to metals, Cat. 1; Skin corrosion/irritation, Cat. 1B; Serious eye damage/eye irritation, Cat. 1; Specific target organ toxicity following single exposure, Cat. 3. HAZARDS: H290 - May be corrosive to metals; H314 - Causes severe skin burns and eye damage; H318 - Causes serious eye damage; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness. [SCLs/M-factors/ATEs]: Skin Corr. 1B; H314: C ≥ 25 %; Skin Irrit. 2; H315: 10 % ≤ C < 25 %; Eye Irrit. 2; H319: 10 % ≤ C < 25 %; STOT SE 3; H335: C ≥ 10 %		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once). First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If swallowed or inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Do not give direct mouth-to-mouth resuscitation. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice. Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary
For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam. This material is substantially water.

Specific hazards arising from the chemical

Hydrochloric acid: Hydrogen chloride gas

Material does not burn. Runoff may pollute waterways

Special protective actions for fire-fighters
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Methods and materials for containment and cleaning up
SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

SECTION 7: Handling and storage

Precautions for safe handling
Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities
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.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 7647-01-0
Hydrochloric acid
AU/SWA (Australia): 5 Peak limitation ppm; 7.5 Peak limitation mg/m3 TWA inhalation;

Appropriate engineering controls
Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection
Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection
Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Colourless
Odor	No data available.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	Acidic
Kinematic viscosity	No data available.
Solubility	Miscible in water
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Approx 1
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes
No data available.

Further safety characteristics (supplemental)
No data available.

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions of storage and handling.

Reacts with incompatible materials

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Will corrode metals. Will produce toxic gases on contact with cyanides, sulphides etc.

Conditions to avoid
Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Hydrochloric acid: Bases, Amines, Alkali metals, Metals, permanganates, for example potassium permanganate, Fluorine, metal acetylides, hexalithium disilicide

Hazardous decomposition products
Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin corrosion/irritation
May be irritating to skin. The symptoms may include redness, itching and swelling.

Serious eye damage/irritation
Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
Suspected of causing genetic defects

Carcinogenicity
This product is or contains a component that is classifiable as a carcinogen.

Reproductive toxicity
No data available.

Specific target organ toxicity (STOT) - single exposure
May cause damage to organs.

Specific target organ toxicity (STOT) - repeated exposure
May cause damage to organs through prolonged or repeated exposure

Aspiration hazard
No data available

Additional information

O-ANISIDINE HYDROCHLORIDE: *TOXICITY:
typ. dose mode specie amount units other
Not available

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:
THR: An experimental carcinogen and tumorigen. Mutagenic data.

*CARCINOGENICITY:
Tumorigenic Data:
TDLo: orl-rat 180 gm/kg/2Y-C
TDLo: orl-mus 721 gm/kg/2Y-C
TD : orl-rat 360 gm/kg/78W-C
TD : orl-mus 216 gm/kg/78W-C
TD : orl-mus 1803 gm/kg/1Y-C
TD : orl-mus 3605 gm/kg/1Y-C
TD : orl-rat 2905 gm/kg/83W-C
TD : orl-rat 5810 gm/kg/83W-C
Review: IARC Cancer Review: Animal Sufficient Evidence
Status: NCI Carcinogenesis Bioassay (Feed); Positive: Male and Female Rat, Male and Female Mouse [015,620]
NTP Fourth Annual Report on Carcinogens, 1984
NTP anticipated human carcinogen [610]

*MUTATION DATA: see RTECS printout for data

*TERATOGENICITY: Not available

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: None
ACGIH: None
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): None
Flammability (F): None
Reactivity (R): None

*OTHER TOXICITY DATA:
Status: EPA Genetox Program 1988, Positive: Carcinogenicity-mouse/rat

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Hydrochloric acid: *TOXICITY:
typ. dose mode specie amount units other
LCLo ihl hmn 1300 ppm/30M
LCLo ihl hmn 3000 ppm/5M
LDLo unr man 81 mg/kg
LC50 ihl rat 3124 ppm/1H
LC50 ihl mus 1108 ppm/1H
LD50 ipr mus 1449 mg/kg
LD50 orl rbt 900 mg/kg
LCLo ihl rbt 4416 ppm/30M
LCLo ihl gpg 4416 ppm/30M
LCLo ihl mam 1000 mg/m3/2H

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:
THR: A highly corrosive irritant to the eyes, skin and mucous membranes.
Mildly toxic by inhalation.

*CARCINOGENICITY: Not available

*MUTATION DATA: See RTECS printout for most current data
test lowest dose | test lowest dose
---------- ---------- | ---------- ----------
dnr-esc 25 ug/well | sln-dmg-ihl 100 ppm/24H
sln-dmd-orl 100 ppm | cyt-grh-par 20 mg
cyt-ham:lng 30 mmol/L |

*TERATOGENICITY: See RTECS printout for most current data
Reproductive Effects Data:
TCLo: ihl-rat 450 mg/m3/1H (1D pre)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z
Transitional and Final Limits: PEL-Ceiling Limit 5 ppm [015,327,545,610]
ACGIH: TLV-Ceiling Limit 5 ppm [015,415,421,610]
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): 3
Flammability (F): 0
Reactivity (R): 0
H3: Materials extremely hazardous to health but areas may be entered
with extreme care (see NFPA for details).
F0: Materials that will not burn (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions
and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:
Skin and Eye Irritation Data:
eye-rbt 5 mg/30S rinse MLD
Review: Toxicology Review-3
Standards and Regulations: DOT-Hazard: Nonflammable gas; Label: Nonflammable
gas
DOT-Hazard: Corrosive material; Label: Corrosive
DOT-IMO: Flammable gas; Label: Nonflammable gas,
Corrosive
EPA Fifra 1988 Pesticide Subject to Registration or
Re-registration
Status: EPA Genetox Program 1988, Negative: Cell transform.-SA7/SHE
EPA TSCA Chemical Inventory, 1989
EPA TSCA Section 8(e) Status Report 8EHQ-0578-0146
EPA TSCA Test Submission (TSCATS) Data Base, April 1990
NIOSH Analytical Methods: see Acids, Inorganic, 7903
IDLH value: 100 ppm [346,371]

SECTION 12: Ecological information

Toxicity
No data available on product

Persistence and degradability
No data available.

Bioaccumulative potential

No data available.

Mobility in soil
No data available.

Results of PBT and vPvB assessment
No data available.

Endocrine disrupting properties
No data available.

Other adverse effects
No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations
Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)
UN Number: 2922
Class: 8,6.1
Packing Group: III
Proper Shipping Name: CORROSIVE LIQUID, TOXIC N.O.S. (O-Anisidine Hydrochloride, Hydrochloric Acid)

Hazchem emergency action code (EAC)
2X

IMDG
UN Number: 2922
Class: 8,6.1
Packing Group: III
Proper Shipping Name: CORROSIVE LIQUID, TOXIC N.O.S. (O-Anisidine Hydrochloride, Hydrochloric Acid)

IATA
UN Number: 2922
Class: 8,6.1
Packing Group: III
Proper Shipping Name: CORROSIVE LIQUID, TOXIC N.O.S. (O-Anisidine Hydrochloride, Hydrochloric Acid)

SECTION 15: Regulatory information

SECTION 16: Other information