# SAFETY DATA SHEET

**BRS AUSTRALIA** | Product: **ARMOURKOTE**

## SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|---|---|---|---|
| **SUPPLIER:** | BRS AUSTRALIA PTY LTD | | |
| **ADDRESS:** | P.O. Box 1071 Ashmore City, QLD 4214 | | |
| **Trade Name:** | **ARMOURKOTE** | | |
| **TELEPHONE:** | 07 3807 7400 | **FAX:** | 07 3807 7491 |
| **AH EMERGENCY TELEPHONE:** | 13 1126 in Australia | **ABN:** | 19 158 969 754 |
| **Substance:** | water based | **Product Use:** | Leather/Vinyl Protectant. |
| **Creation Date:** | March 2016 | **Revision Date:** | March 2021 |
| **Product Code:** | 0AKB/AK | | |

## SECTION 2 – HAZARDS IDENTIFICATION

| **Classification of the substance or mixture** | |
|---|---|
| **Safework Australia Classification** | Hazardous/eye irritant R36 |
| **Poisons Schedule** | Not scheduled |
| **HSNO Category** | 6.4A |
| **ADG Code** | Not classified as dangerous goods |
| **GHS Classification** | Eye Damage Category 2A |

| **Label elements** | |
|---|---|
| **GHS label pictograms** |  GHS07 |
| **Signal word** | **Warning** |

| **Hazard statements** | |
|---|---|
| H319 | Causes serious eye irritation |

| **Precautionary statements: General** | |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |

| **Precautionary Statements: Prevention** | |
|---|---|
| **264** | Wash hands thoroughly after handling. |
| . 280 | Wear eye protection/ face protection. |

| **Precautionary statements: Response** | |
|---|---|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

| **Precautionary statements: Storage** | |
|---|---|
| | Not applicable |

| **Precautionary statements: Disposal** | |
|---|---|
| | Not applicable |

| **Note** | |
|---|---|
| **IMPORTANT** | This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied.<br>When diluted to 1:2 or greater they no longer apply.<br>However, good hygiene and housekeeping practices should be adhered to. |

| **EMERGENCY OVERVIEW** | | | |
|---|---|---|---|
| **Colour** | white | **Odour** | characteristic |
| **Physical Description** | Liquid | **Viscosity** | Non-viscous liquid |

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

| **Ingredients:** | **CAS Number:** | **Proportion:** |
|---|---|---|
| Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy | 160875-66-1 | < 10% w/w |
| Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [CAS No. 26172-55-4] and 2-methyl-2Hisothiazol-3-one [CAS No. 2682-20-4] (3:1) | 55965-84-9 | <0.1% w/w |
| Ingredients determined to be non-hazardous (surfactant, fragrance, preservative) | various | < 10% w/w |
| Water | 7732-18-5 | To 100% w/w |
| NOTE: | Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication “List of Designated Hazardous Substances” or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication “Approved Criteria for Classifying Hazardous Substances”, or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) , 4th edition United Nations 2011.<br>Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects. | |

## SECTION 4 – FIRST AID MEASURES

| | |
|---|---|
| **Scheduled Poisons** | Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766). |
| **First Aid Facilities** | Normal washroom facilities. |
| **Skin contact** | Wash skin with plenty of water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness develops. |
| **Eye contact** | Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist). |
| **Ingestion** | Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give |

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| | further water to achieve effective dilution. Seek medical advice (e.g. doctor). |
| **Inhalation** | Remove victim to fresh air away from exposure - avoid becoming a casualty. Seek medical advice (e.g. doctor). |
| **Advice to Doctor** | Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. |
| **Aggravated Medical Conditions** | None known. |

| **Symptoms caused by exposure** | |
|---|---|
| | • Ingestion may result in nausea and vomiting.<br>• Skin contact may result in irritation, redness, pain, rash, dermatitis.<br>• Eye contact may result in irritation, lacrimation, pain, redness, conjunctivitis.<br>• Inhalation over exposure may result in mucous membrane irritation of the respiratory tract and coughing. |

## SECTION 5 – FIRE FIGHTING MEASURES

| **Suitable extinguishing equipment / media** | |
|---|---|
| **Extinguish media** | Not combustible, however if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder). |

| **Special hazards arising from the chemical** | |
|---|---|
| **Fire incompatibility** | None known. |

| **Special protective equipment and precautions for fire fighters** | |
|---|---|
| **Fire Fighting** | • Move people from immediate area; keep upwind.<br>• Stop leak if safe to do so.<br>• Send messenger to notify fire brigade and police.<br>• Tell them location, material quantity and emergency contact.<br>• Indicate condition of vehicle and damage or injuries observed.<br>• Warn other traffic. |
| **Fire/Explosion Hazard** | • Water based. Not combustible.<br>• However if involved in a fire will emit toxic fumes. |

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

| **Personal precautions, protective equipment and emergency procedures** | |
|---|---|
| **Minor spills** | • Clean up all spills immediately.<br>• Avoid breathing vapours and contact with skin and eyes.<br>• Control personal contact with the substance, by using protective equipment.<br>• For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use |

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| | an appropriate absorbent material and dispose of safely. |
| **Major spills** | • Stop leak if safe to do so.<br>• In the event of a major spill, prevent spillage from entering drains or water courses.<br>• Send messenger to notify fire brigade and police.<br>• Tell them location, material quantity and emergency contact.<br>• Indicate condition of vehicle and damage or injuries observed.<br>• Warn other traffic.<br>• Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination.<br>• Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions.<br>• Residual deposits will remain slippery.<br>• Wash area down with excess water.<br>• If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services. |

| **Environmental precautions** |
|---|
| • Use appropriate containment to avoid environmental contamination.<br>• Prevent from spreading and entering waterway using sand, earth or other appropriate barriers.<br>• Ventilate contaminated area thoroughly. |

| **Methods and materials for containment and cleaning up** |
|---|
| • Avoid contact with spilled or released material.<br>• Shut off leaks, if possible without personal risks.<br>• Isolate hazard area and deny entry to unnecessary or unprotected personnel.<br>• Personal protective equipment advice is contained in Section 8 of the SDS. |

## Section 7 – Handling and Storage

| **Precautions for safe handling** | |
|---|---|
| **Safe handling** | • Wear prescribed protective clothing.<br>• Use in well ventilated area.<br>• Do NOT eat, drink or smoke when handling.<br>• Wash hands after use.<br>• Keep containers closed tightly when not in use.<br>• Store in accordance to manufacturers instructions. |
| **Other information** | • Store in original containers.<br>• Store in a cool, dry, well ventilated area out of direct sunlight.<br>• Store in approved cupboards or storage containers. |

| Conditions for safe storage, including any incompatibilities | |
|---|---|
| **Suitable container** | Bulk storage tanks should be bunded.<br>Store in original containers provided by the manufacturer. |
| **Storage incompatibility** | Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat.<br>Do not store near strong oxidants. |

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

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|---|---|
| **Exposure Limits:**<br>**ARMOURKOTE** | From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia – None available for this product.<br>Contains no substances with occupational exposure limits. |

**Ingredients data**

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---|---|---|---|---|---|---|
| Australian Exposure Standards | Not available | Not available | Not available | Not available | Not available | Not available |

| | |
|---|---|
| **Biological Limit Value** | None established for product. |
| **Engineering Controls** | Ensure ventilation is adequate to maintain air concentrations below exposure standards.<br>Use only in a well-ventilated area. |
| **Personal Protective Equipment** | Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available; |
| **Eye Protection**<br>  | Eye and face protection recommended.<br>The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc.<br>Contact lenses pose a special hazard ; soft lenses may absorb irritants and all lenses concentrate them. |
| **Skin Protection**<br>  | Gloves are generally not required for typical applications as per label directions. Gloves are recommended for sensitive skin.<br>Work clothes, work boots and gloves are recommended for handling the concentrated product in quantity, cleaning up spills, decanting, etc (as per AS/NZS 2161, or as recommended by supplier). |
| **Protective Material Types** | Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes. |
| **Respirator**<br>  | Generally not required for typical applications as per label directions.<br>If work practices do not maintain airborne level below exposure standards, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours. Respirators should comply with AS1716 or an equivalent approved by a state/territory authority. |

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| Physical State | Non-viscous liquid | Colour | White, milky |
| Odour | characteristic odour | Specific Gravity | 1.0 – 1.02 @ 25 °C |
| Boiling Point | Approximately 100 °C | Freezing Point | Approximately 0 °C |
| Vapour Pressure | Not available | Vapour Density | Not available |
| Flash Point | Not flammable | Flammable Limits | none |
| Water Solubility | Miscible in all proportions | pH | 7.0 neat |
| Volatile Organic Compounds (VOC) | 0 % v/v | Coefficient of Water/Oil Distribution | Not available |
| Viscosity | Not available | Odour Threshold | Not available |
| Evaporation Rate | Not available | Per Cent Volatile | Ca 85 % v/v |

## SECTION 10 – STABILITY AND REACTIVITY

| | |
|---|---|
| **Chemical Stability** | Stable at normal temperatures and pressure. |
| **Conditions to Avoid** | None known. |
| **Incompatible Materials** | Can react with strong oxidizing agents.<br>When heated to temperatures above 150 °C in the presence of air, can form formaldehyde vapours. |
| **Hazardous Decomposition Products** | Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours. |
| **Hazardous Reactions** | None known. |

## SECTION 11 – TOXICOLOGICAL INFORMATION

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|---|---|
| **PRODUCT MIXTURE INFORMATION** | |
| **POTENTIAL HEALTH EFFECTS** | |
| **Ingestion** | |
| **short term exposure** | Swallowing large amounts of this product can cause stomach irritation, nausea and diarrhea. |
| **long term exposure** | No information available. |
| **Skin contact** | |
| **short term exposure** | Prolonged contact with concentrated solutions may be irritating. |
| **long term exposure** | Prolonged and repeated skin contact with solutions may induce eczematoid dermatitis in certain individuals. |
| **Eye contact** | |
| **short term exposure** | Irritant to eyes. Eye contact may result in irritation, lacrimation, pain, redness, conjunctivitis. |
| **long term exposure** | Repeated overexposure may lead to chronic conjunctivitis. |
| **Inhalation** | |
| **short term exposure** | Exposure to intentionally generated mists of this product may cause slight nose and throat irritation. |
| **long term exposure** | No information available. |
| **Carcinogen Status** | |
| **NOHSC** | No significant ingredient is classified as carcinogenic by NOHSC. |
| **NTP** | No significant ingredient is classified as carcinogenic by NTP. |
| **IARC** | No significant ingredient is classified as carcinogenic by IARC. |
| **Medical conditions aggravated by exposure** | No information available. |

| ARMOURKOTE | | | |
|---|---|---|---|
| **TOXICITY** | Not toxic, based on ingredients. Oral LD50 (calculated) : >10,000mg/L | **IRRITATION** | Not irritating to skin. Causes serious eye Irritation, based on ingredients |

| CLASSIFICATION OF INDIVIDUAL INGREDIENTS | | | |
|---|---|---|---|
| **NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical. See SECTION 3 for actual proportions of ingredients present in this product.** | | | |
| **Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxyl (polydimethylsiloxane)** | | | |
| **TOXICITY** | (rat) oral LD50 >500mg/kg | **IRRITATION** | Skin: not irritant |
| **Acute Toxicity** | No | **Carcinogenicity** | NO |
| **Skin Irritation/Corrosion** | No | **Reproductivity** | NO |
| **Serious Eye Damage/Irritation** | YES | **STOT – Single Exposure** | NO |
| **Respiratory or Skin sensitivity** | NO | **STOT – Repeated Exposure** | NO |
| **Mutagencity** | NO | **Aspiration Hazard** | NO |

| **Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [CAS No. 26172-55-4] and 2-methyl-2Hisothiazol-3-one [CAS No. 2682-20-4] (3:1)** | | | |
|---|---|---|---|
| **Acute Toxicity** | Acute oral toxicity LD50 rat female 2,630 mg/kg<br>LD50 rat male 3,350 mg/kg<br>Acute inhalation toxicity<br>LC50 rat 4 h 0.33 mg/l<br>Active ingredient | **Carcinogenicity** | Non-carcinogenic in both a mouse dermal and rat oral carcinogenicity study. |
| **Skin Irritation/Corrosion** | Acute dermal toxicity LD50 rabbit > 5,000 mg/kg<br>Skin irritation rabbit: Corrosive<br>Eye irritation rabbit: Corrosive | **Reproductivity** | This product is not a reproductive hazard. Did not show teratogenic effects in animal experiments. |
| **Serious Eye Damage/Irritation** | No | **STOT – Single Exposure** | No data available |
| **Respiratory or Skin sensitivity** | YES Sensitisation guinea pig - Causes sensitization. | **STOT – Repeated Exposure** | No data available |
| **Mutagencity** | Non-mutagenic | **Aspiration Hazard** | No data available |

## SECTION 12 – ECOLOGICAL INFORMATION

| **Toxicity** | |
|---|---|
| **ARMOURKOTE** | Not harmful to aquatic organisms. Acute Aquatic Toxicity (Calculated) LC50: 213 – 236 mg/L. |
| Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxyl (polydimethylsiloxane) | Ec50 (Daphnia magna (water flea)): >10 – 100 mg/L. 48 hour exposure.<br>Acute (short-term) fish toxicity Parameter: LC0 ( POLYDIMETHYLSILOXANE )<br>Species: Leuciscus idus (golden orfe)<br>Evaluation parameter: Acute (short-term) fish toxicity<br>Effective dose. 200 mg/l Exposure time: 96 h |
| Mixture of: 5-chloro-2- | Toxicity to fish LC50 Oncorhynchus mykiss (rainbow trout) 96 h 0.19 mg/l |

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|---|---|
| methyl-4-isothiazolin-3-one [CAS No. 26172-55-4] and 2-methyl-2Hisothiazol-3-one [CAS No. 2682-20-4] (3:1) | Toxicity to fish LC50 Bluegill sunfish 96 h 0.28 mg/l<br>Toxicity to algae EC50 Marine algae (Skeletonema costatum) 0.003 mg/l<br>Toxicity to algae EC50 Algae (Selenastrum capricornutum) 0.018 mg/l<br>Toxicity to aquatic invertebrates EC50 Daphnia magna 48 h 0.16 mg/l |

| **Persistence and degradability** | | |
|---|---|---|
| **Ingredient** | **Persistence: Water/Soil** | **Persistance: Air** |
| Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy | Readily biodegradable | Not available |
| Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [CAS No. 26172-55-4] and 2-methyl-2Hisothiazol-3-one [CAS No. 2682-20-4] (3:1) | Biodegradation (aquatic metabolism): CAS # 26172-55-4 t 1/2 anaerobic = 4.8 hr, CAS # 26172-55-4 t 1/2 aerobic = 17.3 hr, CAS # 2682-20-4 t 1/2 aerobic = 9.1 hr<br>Activated Sludge Respiration Inhibition EC50: 4.5 mg/L ai | Not available |

| **Bioaccumulative potential** | |
|---|---|
| **Ingredient** | **Bioaccumulation** |
| Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy | Not available |
| Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [CAS No. 26172-55-4] and 2-methyl-2Hisothiazol-3-one [CAS No. 2682-20-4] (3:1) | Not available |

| **Mobility in soil** | |
|---|---|
| **Ingredient** | **Mobility** |
| Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy | Not available |
| Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [CAS No. 26172-55-4] and 2-methyl-2Hisothiazol-3-one [CAS No. 2682-20-4] (3:1) | Not available |

## SECTION 13 – DISPOSAL CONSIDERATIONS

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|---|---|
| **Disposal** | To dispose of quantities of undiluted product, refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. As with any chemical, do not put down the drain in quantity. The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septics, and grey water systems. For larger scale use, eg. truck washing depot, a recycled water system is often recommended, or Trade Waste License obtained for disposal to sewer. |

## SECTION 14 – TRANSPORT INFORMATION

| **ADG CODE – ROAD & RAIL** | | | |
|---|---|---|---|
| **UN Number** | none allocated | **ADG Classification** | none allocated |
| **Shipping Name** | none allocated | **ADG Subsidiary Risk** | none allocated |
| **Hazchem Code** | none allocated | **Packing Group** | none allocated |

## SECTION 15 – REGULATORY INFORMATION

| | |
|---|---|
| **SAFE WORK AUSTRALIA** | HAZARDOUS/EYE IRRITANT R36 |
| **GHS Classification** | Eye Damage Category 2A |
| **SUSMP** | not scheduled |
| **HSNO Category** | 6.4A |
| **ADG Code** | None allocated |
| **AICS** | All ingredients present on AICS. |

## SECTION 16 – OTHER INFORMATION

| **Acronyms** | |
|---|---|
| **GHS** | Global System of Harmonisation. |
| **ADG Code** | Australian Code for the Transport of Dangerous Goods by Road and Rail. |
| **CAS Number** | Chemical Abstracts Service Registry Number. |
| **UN Number** | United Nations Number. |
| **HAZCHEM** | An emergency action code of numbers and letters which gives information to emergency services. |
| **SUSMP** | Standard for the Uniform Scheduling of Medicines and Poisons |
| **NOHSC** | National Occupational Health and Safety Commission. |
| **NTP** | National Toxicology Program (USA). |
| **IARC** | International Agency for Research on Cancer. |
| **AICS** | Australian Inventory of Chemical Substances. |
| **TWA** | Time Weighted Average |
| **STEL** | Short Term Exposure Limit |
| **Literature References** | List of Designated Hazardous Substances [NOHSC:10005(1999)] |
| | Australian Code For The Transport Of Dangerous Goods By Road And Rail – 7th Edition. |
| | Standard for the Uniform Scheduling of Medicines and Poisons 2015. |
| | National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)] |
| | Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)] |
| | Material Safety Data Sheets – individual raw materials – Suppliers. |
| | HSIS – Hazardous Substance Information System – National Worksafe Data Base. |

| | | | |
|---|---|---|---|
| | Labelling of workplace hazardous chemicals, Code of Practice, DEC 2011 | | |
| | Guidance on the classification of hazardous chemicals under the WHS Regulations, Implementation of the Globally Harmonised System of classification and labeling of chemicals (GHS) APRIL 2012 | | |
| | Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third revised edition. | | |
| **Revision Information** | New Issue to standard : PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS Code of Practice DECEMBER 2011 | | |
| **Note** | Safety Data Sheets are updated frequently. Please ensure that you have a current copy. | | |
| **Contact Point** | Regulatory Affairs Manager | **Telephone** | 07 3807 7400 |

This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.