

## Advanced Piping Systems Fusion Wipes

### Material Safety Data Sheet

Issued and Approved for use by  
Advanced Piping Systems Pty Ltd. July 2013

Poisons Information Centre: 13 11 26 from anywhere  
in Australia (0800 764 766 in New Zealand)



### Specifications

#### Section 1 – Identification of the Material and Supplier

<b>Supplier</b>	Advanced Piping Systems Pty Ltd, 5-9 Benjamin Street, St Marys, SA 5042 Ph: 08 8206 7000   Fax: 08 8206 7001
<b>Chemical nature:</b>	Isopropanol solution on a cloth wipe
<b>Trade name:</b>	Advanced Fusion Wipes (product of Kimberly-Clark ISOWIPE – Bactericidal Wipe)
<b>Product use:</b>	Hard surface wipes to help ensure surfaces are free from dust/debris etc before electro fusion jointing. This product has been approved for use by Advanced Piping Systems Pty Ltd.
<b>Creation date:</b>	April 2011
<b>This version issued:</b>	July, 2013 and is valid for 5 years from this date. Section 2

#### Section 2 – Hazards Identification

##### Statement of Hazardous Nature

This product is classified as: Xi, Irritating. F, Flammable. Hazardous according to the criteria of SWA.

Dangerous according to the Australian Dangerous Goods (ADG) Code

**Risk Phrases:** R10, R36. Flammable. Irritating to eyes.

**Safety Phrases:** S16, S23, S25, S36. Keep away from sources of ignition - No smoking. Do not breathe vapours. Avoid contact with eyes. Wear suitable protective clothing.

**SUSMP Classification:** None allocated.

**ADG Classification:** Class 4.1: Flammable solids.

**UN Number:** 3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S

##### Emergency Overview

**Physical Description & Colour:** Clear colourless liquid on a fabric wipe, presented in a plastic container with a dispenser top.

**Odour:** Characteristic odour of isopropanol.

**Major Health Hazards:** No major health hazards. Eye irritant.

## Potential Health Effects

**Inhalation: Short Term Exposure:** Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation. **Long Term Exposure:** No data for health effects associated with long term inhalation.

**Skin Contact: Short Term Exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition product is unlikely to cause any discomfort in normal use. **Long Term Exposure:** No data for health effects associated with long term skin exposure.

**Eye Contact: Short Term Exposure:** This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage. **Long Term Exposure:** No data for health effects associated with long term eye exposure.

**Ingestion: Short Term Exposure:** Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort. **Long Term Exposure:** No data for health effects associated with long term ingestion.

**Carcinogen Status:** SWA: No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** Isopropanol is Class 3 - unclassifiable as to carcinogenicity to humans. See the IARC website for further details. A web address has not been provided as addresses frequently change.

## Section 3 – Composition / Information on Ingredients

Ingredients	CAS no	Conc, %	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Isopropanol	67-63-0	90	983	1230
Other non-hazardous	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

## Section 4 – First Aid Measures

### General Information:

You should call The **Poisons Information Centre** if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

**Inhalation:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

**Eye Contact:** Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

## Section 5 – Fire Fighting Measures

**Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire. This product will probably cause the fire to intensify as contents ignite. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** Suitable extinguishing media are carbon dioxide, dry chemical, foam, water fog. Coarse water spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus. Cool closed, undamaged containers exposed to fire with water spray.

<b>Flash point:</b>	21 °C
<b>Upper Flammability Limit:</b>	12%
<b>Lower Flammability Limit:</b>	2%
<b>Auto ignition temperature:</b>	No data
<b>Flammability Class</b>	No data

## Section 6 – Accidental Release Measures

**Accidental release:** This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

## Section 7 – Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Store in a cool, well ventilated area, and make sure that surrounding electrical devices and switches are suitable. Check containers periodically for leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. If you keep more than 2500kg or L of Dangerous Goods of Packaging Group II, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

## Section 8 – Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

<b>SWA Exposure Limits</b>	<b>TWA (mg/m<sup>3</sup>)</b>	<b>STEL (mg/m<sup>3</sup>)</b>
Isopropanol	983	1230

No special equipment is usually needed when occasionally handling small quantities.

The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

**Eye Protection:** Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

**Skin Protection:** The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: Viton, nitrile, butyl rubber, PE/EVAL, Responder.

**Respirator:** If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask. Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

## Section 9 – Physical and Chemical Properties

<b>Physical Description &amp; colour:</b>	Clear colourless liquid on a fabric wipe, presented in a plastic container with a dispenser top.
<b>Odour:</b>	Characteristic odour of isopropanol.
<b>Boiling Point:</b>	> 82°C at 100kPa
<b>Freezing/Melting Point:</b>	Not applicable.
<b>Volatiles:</b>	Isopropanol (liquid) component.
<b>Vapour Pressure:</b>	No data.
<b>Vapour Density:</b>	Not applicable.
<b>Specific Gravity</b>	No data.
<b>Water Solubility:</b>	Liquid is soluble, fabric is not.
<b>pH:</b>	No data.
<b>Volatility:</b>	No data.
<b>Odour Threshold:</b>	No data.
<b>Evaporation Rate:</b>	>7
<b>Coeff Oil/water Distribution:</b>	No data
<b>Viscosity:</b>	Not applicable.
<b>Auto ignition temp:</b>	No data.

## Section 10 – Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30 °C. Keep containers tightly closed. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Keep away from heat, flames and sparks.

**Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

## Section 11 – Toxicological Information

Toxicity: IMMEDIATE (ACUTE) EFFECTS:

### For Isopropanol:

Oral LD50 (rat): 5045 mg/kg

Inhalation LC50 (rat): 16,000 ppm/8 hours

Skin LD50 (rabbit): 12,800 mg/kg

Skin Irritation (rabbit): 500 mg – mild

Eye Irritation (rabbit): 10 mg – moderate: 100 mg – severe

### DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

Subchronic Inhalation (rat): TClO 5000 ppm/6 hr/day for 90 days (intermittent) caused a change in motor activity.

Chronic Inhalation (rat): TClO 2500 ppm/6 hr/day for 2 years (intermittent) caused changes in liver and bladder weight and changes in urine composition.

**OTHER DATA:** Some very rare cases of skin hypersensitivity to Isopropanol have been reported. However, these cases do not at this time warrant Isopropanol to be classed as a sensitizer. There is no data to hand indicating any particular target organs.

## Classification of Hazardous Ingredients

Ingredient	Risk Phrases
Isopropanol	Conc>=20%: Xi; R36

## Section 12 – Ecological Information

Insufficient data to be sure of status. Expected to not be an environmental hazard.

### For Isopropanol:

Biodegradation: 58% theoretical BOD, 5 days at 20°C - Relatively biodegradable.

Bioconcentration: Not expected to bioaccumulate in aquatic organisms based on low octanol/water partition coefficient.

Acute Toxicity (fathead minnow): LC50 10.4 g/L /96 hr.

## Section 13 – Disposal Considerations

Disposal: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

## Section 14 – Transport Information

**ADG Code:** 3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

**Hazchem Code:** 1Z

**Special Provisions:** 216, 274

**Limited quantities:** ADG 7 specifies a Limited Quantity value of 1 kg for this class of product.

**Dangerous Goods Class:** Class 4.1: Flammable solids.

**Packaging Group:** II

**Packaging Method:** P002, IBC06

Class 4.1 Flammable Solids shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 2.1 (Flammable Gases), 4.2 (Spontaneously Combustible Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), or 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Toxic Gases), 3 (Flammable liquids), 4.3 (Dangerous When Wet Substances), 6 (Toxic Substances), 8 (Corrosive Substances) 9 (Miscellaneous Dangerous Goods) , Foodstuffs and foodstuff empties.

## Section 15 – Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

## Section 16– Other Information

**This MSDS contains only safety-related information. For other data see product literature.**

### Acronyms:

<b>ADG</b>	Code Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>SWA</b>	Safe Work Australia, formerly ASCC and NOHSC
<b>CAS</b>	number Chemical Abstracts Service Registry Number
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>R- Phrase</b>	Risk Phrase
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company so we can attempt to obtain additional information from our suppliers. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document “National Code of Practice for the Preparation of Material Safety Data Sheets” 2nd Edition [NOHSC:2011(2003)] Copyright © Kilford & Kilford Pty Ltd, June, 2013. <http://www.kilford.com.au/> Phone (02) 9251 4532

Material Safety Data Sheet  
Issued by Advanced Piping Systems Pty Ltd | Ph: 08 8206 7000 (business hours)

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