

## Safety Data Sheet

### Isopentane (20-85%) / A31 (15-80%)


#### Section 1. Identification of product and company

Material name	Isopentane (20-85%) / A31 (15-80%)
Synonyms	Gillette Blend
Product use	Aerosol propellant
SDS ID number	SDS78-78-4
Supplier's details	Aerosol Supplies Australia Pty Ltd Unit 6, 36 Curtis Road Mulgrave, NSW 2756 AUSTRALIA
General telephone enquiries	+61 2 4577 8890
Emergency telephone number (24h)	+61 412 024 612

#### Section 2. Hazards identification

Classification of the substance	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE – Liquefied gas Specific Target Organ Toxicity – Single Exposure 3 Simple Asphyxiant
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#### GHS label elements:

Hazard pictograms	
Signal words	Danger
Hazard statements	Extremely flammable gas. Contains gas under pressure; may explode if heated. May cause drowsiness or dizziness. May displace oxygen and cause rapid suffocation.

**<sup>1</sup>Precautionary statements:**

Prevention	Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
Response	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a Poisons Information Centre/doctor if you feel unwell.
Storage	Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations
Hazards not otherwise classified	No additional information available.

**Section 3. Composition / information on ingredients**

Chemical identity	CAS Number	Proportion (%)
Isopentane	78-78-4	20 – 85
Isobutane	75-28-5	13.5 – 80
Butane	106-97-8	< 8

**Section 4. First aid measures****Description of necessary first aid measures:**

Inhalation	<b>Symptoms: Difficulty Breathing</b> If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
Skin contact	<b>Symptoms: Frostbite</b> If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists. If frostbite occurs thaw frosted parts with lukewarm water. Do not rub affected area. Do not use hot water.
Eye contact	<b>Symptoms: Eye irritation; frostbite.</b> In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention. If frostbite occurs thaw frosted parts with lukewarm water. Do not rub affected area. Do not use hot water.

Ingestion	<b>Symptoms: Drowsiness or dizziness; frostbite.</b> Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
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**Most important symptoms / effects:**

Inhalation	May cause drowsiness or dizziness. May cause respiratory tract irritation. Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.
Skin contact	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquefied gas.
Eye contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquefied gas.
Ingestion	Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Medical attention and special treatment:**

Notes to physicians	Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
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**Section 5. Fire-fighting measures**

Suitable extinguishing equipment	Dry chemical, carbon dioxide, water spray, water fog, foam. Do NOT use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	<b>Fire Hazard:</b> Extremely flammable gas. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Products of combustion may include, and are not limited to: oxides of carbon. <b>Explosion Hazard:</b> Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Advice for Fire fighters	<b>Firefighting Instructions:</b> Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. <b>Special protective precautions for fire fighters:</b> Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Use only non-sparking tools. Eliminate every possible source of ignition.
Containment and Environmental precautions	Stop leak, if possible without risk. Prevent entry into sewers, water courses, basements or confined areas. Use appropriate personal protection equipment (PPE).
Methods and materials for cleaning up	Allow gas to dissipate harmlessly into the atmosphere. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Risk of suffocation due to oxygen deficiency in confined areas. Provide ventilation.

## Section 7. Handling and storage

Precautions for safe handling	<p><b>Safe Handling:</b> Keep away from sources of ignition. - No smoking. Pressurised container: Do not pierce or burn, even after use. Take precautionary measures against static discharge. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.</p> <p><b>Advice on general occupational hygiene:</b> Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.</p>
Conditions for safe storage, including any incompatibilities	<p><b>Technical measures:</b> Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.</p> <p><b>Storage conditions:</b> Keep locked up and out of reach of children. Keep container tightly closed. Store away from direct sunlight or other heat sources. Store in a cool, dry, well ventilated place away from incompatible materials.</p>

## Section 8. Exposure controls and personal protection

### Exposure standards:

<b>Isopentane (78-78-4)</b>		
ACGIH	ACGIH TWA (ppm)	600 ppm
OSHA	Not applicable	
<b>Isobutane (75-28-5)</b>		
ACGIH	ACGIH STEL (ppm)	1000 ppm
OSHA	Not applicable	

<b>Butane (106-97-8)</b>		
ACGIH	ACGIH STEL (ppm)	1000 ppm
OSHA	Not applicable	

Appropriate engineering controls	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, etc.) below recommended exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
Hand protection	Wear suitable gloves.
Eye protection	Safety glasses or goggles are recommended when using product.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	Maintain levels below Community environmental protection thresholds.
Other information	Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

## Section 9. Physical and chemical properties

Physical state	Gas/pressurised liquid
Appearance	Clear
Colour	Colourless
Odour	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Relative evaporation rate (butylacetate=1)	No data available
Flammability	Flammable
Explosive limits	No data available
Explosive properties	No data available
Oxidising properties	No data available
Vapour pressure	>0 at 21.1 °C
Relative density	No data available
Relative vapour density at 20 °C	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available

Viscosity, dynamic	No data available
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### Section 10. Stability and reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal storage conditions. Extremely flammable gas. Contains gas under pressure, may explode if heated.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat. Incompatible materials. Sources of ignition. Direct sunlight.
Incompatible materials	Strong oxidising agents, strong reducing agents, halogens.
Hazardous decomposition products	May include, and are not limited to: oxides of carbon.

### Section 11. Toxicological information

Acute toxicity	<b>Not classified</b>
<b>Isopentane (20-85%) / A31 (15-80%)</b>	
LD50 oral rat	No data available.
LD50 dermal rabbit	No data available.
LC50 inhalation rat	> 5 mg/l/4h
<b>Isobutane (75-28-5)</b>	
LC50 inhalation rat	658 mg/l/4h
<b>Butane (106-97-8)</b>	
LC50 inhalation rat	30,957 mg/m <sup>3</sup> /4h
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	May cause drowsiness or dizziness. May cause respiratory tract irritation. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen

	deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.
Symptoms/injuries after skin contact	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquefied gas.
Symptoms/injuries after eye contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquefied gas.
Symptoms/injuries after ingestion	Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

## Section 12. Ecological information

Ecology – general	May cause long-term adverse effect in the aquatic environment.
<b>Isopentane (20-85%) A31 (15-80%)</b>	
Persistence and degradability	Not established.
<b>Isopentane (20-85%) A31 (15-80%)</b>	
Bioaccumulative potential	Not established.
Mobility in soil	No additional information available.
Other adverse effects	No additional adverse effects are known for the product.

## Section 13. Disposal considerations

Waste disposal recommendations	This material must be disposed of in accordance with all local, state, and federal regulations. The generation of waste should be avoided or minimised wherever possible.
Additional information	Handle empty containers with care because residual vapours are flammable.

## Section 14. Transport information

UN number	UN3161
Proper shipping name	Liquefied gas, flammable, n.o.s (Isobutane, isopentane).
Transport hazard class	2.1 No subsidiary risks allocated.
Packing group	None allocated.
Environmental hazards for transport purposes	The substance is not a known marine pollutant according to the IMDG Code.
Special precautions for user	Do not handle until all safety precautions have been read and understood.
Additional information	Transport of the substance is controlled in accordance with the

	requirements of the ADG Code and the National Transport Commission Load Restraint Guide.
Hazchem or Emergency Action code	2YE

### Section 15. Regulatory information

Poisons schedule	None allocated to this substance using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
AICS	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

### Section 16. Other information

**SDS Issue Date: 19 December, 2016**

Revised for compliance to GHS and the Safe Work Australia “Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016”.

The SDS is issued in accordance with Safe Work Australia codes of practice, and the information must not be altered or deleted in any way.

#### Abbreviations and acronyms:

**ADG Code** = Australian Code for the Transport of Dangerous Goods by Road and Rail

**CAS Number** = Chemical Abstracts Service Registry Number

**GHS** = Globally Harmonised System of Classifying and Labelling of Chemicals (published by the United Nations)

**ppm** = parts per million

**SDS** = Safety Data Sheet

**TLV** = Threshold Limit Value

**TWA** = Time weighted average

**STEL** = Short-term Exposure Limit

**UN Number** = United Nations number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



**Safety Data Sheet receipt acknowledgement:**

I hereby acknowledge that I have been provided with a copy of the Aerosol Supplies Australia Safety Data Sheet for Isopentane (20-85%) / A31 (15-80%) version 1, issued December 2016.

Name:

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Title:

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Company:

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Signature:

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Date:

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