

# Safety Data Sheet



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** ISOAMYL ACETATE

**Other name(s):** AAAMY45010; AAAMY45012

**Recommended Use of the Chemical and Restrictions on Use** Manufacture of chemicals.

**Supplier:** Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia  
**ABN:** 51 600 546 512  
**Street Address:** 70 Marple Avenue  
Villawood NSW 2163  
Australia

**Telephone Number:** +61 2 8717 2929  
**Facsimile:** +61 2 9755 9611  
**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

### Classification of the chemical:

Flammable liquids - Category 3  
Specific target organ toxicity (single exposure) - Category 3

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations:

Skin corrosion/irritation - Category 3  
Eye damage/irritation - Category 2B  
Acute Aquatic Toxicity - Category 3

**SIGNAL WORD:** WARNING



### Hazard Statement(s):

H226 Flammable liquid and vapour.  
H316 Causes mild skin irritation.  
H320 Causes eye irritation.  
H335 May cause respiratory irritation.  
H402 Harmful to aquatic life.

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## Precautionary Statement(s):

### Prevention:

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground or bond container and receiving equipment.  
P241 Use explosion-proof electrical, ventilating, lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.

### Response:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P370 In case of fire:  
P378 Use alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal protein foam can be used to extinguish.

### Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents and container in accordance with local, regional, national, international regulations.

### Other Hazards:

AUH066 Repeated exposure may cause skin dryness or cracking.

**Poisons Schedule (SUSMP):** None allocated.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
3-Methyl butyl acetate	123-92-2	>95%	H226

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

### Skin Contact:

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water and soap. If swelling, redness, blistering or irritation occurs seek medical assistance.

### Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

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## **Ingestion:**

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. Seek medical advice.

## **Indication of immediate medical attention and special treatment needed:**

Treat symptomatically.

## **5. FIRE FIGHTING MEASURES**

### **Suitable Extinguishing Media:**

Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal protein foam can be used.

### **Hazchem or Emergency Action Code:** - 3Y

### **Specific hazards arising from the chemical:**

Flammable liquid. On burning will emit toxic fumes, including those of oxides of carbon.

### **Special protective equipment and precautions for fire-fighters:**

Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Emergency procedures/Environmental precautions:**

Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

### **Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:**

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use non-sparking tools. Collect and seal in properly labelled containers or drums for disposal.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling:**

Avoid skin and eye contact and breathing in vapour, mists and aerosols.

May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Take precautionary measures against static discharges. Wash hands before breaks and at the end of the work day.

### **Conditions for safe storage, including any incompatibilities:**

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Isoamyl acetate (Isopentyl acetate): 8hr TWA = 270 mg/m<sup>3</sup> (50 ppm), 15 min STEL = 541 mg/m<sup>3</sup> (100 ppm)

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

## Appropriate engineering controls:

Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. Keep containers closed when not in use. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

## Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.



Wear overalls, safety glasses and impervious gloves. If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid  
**Colour:** Colourless to Pale Yellow

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<b>Odour:</b>	Fruit -like
<b>Odour Threshold:</b>	Not available
<b>Solubility:</b>	Slightly miscible with water.
<b>Specific Gravity:</b>	0.870 @ 25°C
<b>Relative Vapour Density (air=1):</b>	4.0
<b>Vapour Pressure (20 °C):</b>	4 mmHg
<b>Flash Point (°C):</b>	36 (Closed Cup)
<b>Flammability Limits (%):</b>	1 - 7.5 (V)
<b>Autoignition Temperature (°C):</b>	360
<b>Boiling Point/Range (°C):</b>	142
<b>Decomposition Point (°C):</b>	Not available
<b>pH:</b>	Not available
<b>Partition Coefficient:</b>	log Pow = 2.25
<b>Freezing Point/Range (°C):</b>	-78

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No information available.
<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Possibility of hazardous reactions:</b>	Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. Vapours may form explosive mixture with air.
<b>Conditions to avoid:</b>	Avoid exposure to heat, sources of ignition, and open flame.
<b>Incompatible materials:</b>	Incompatible with oxidising agents, strong bases, strong acids, reducing agents.
<b>Hazardous decomposition products:</b>	Oxides of carbon.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

<b>Ingestion:</b>	No adverse effects expected, however, large amounts may cause nausea and vomiting.
<b>Eye contact:</b>	A mild eye irritant.
<b>Skin contact:</b>	Contact with skin will result in mild irritation. Repeated exposure may cause skin dryness or cracking.
<b>Inhalation:</b>	Material is irritant to the mucous membranes of the respiratory tract (airways).

**Acute toxicity:**  
Oral LD50 (rat): 16,600 mg/kg (1)  
Oral LD50 (rabbit): 7,422 mg/kg (1)  
Dermal LD50 (rabbit): >5,000 mg/kg (1)

**Skin corrosion/irritation:** Mild irritant (rabbit). (2)

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**Serious eye damage/irritation:** Mild irritant (rabbit). (2)  
**Respiratory or skin sensitisation:** Not a skin sensitiser (guinea pig). (2)

## Chronic effects:

**Mutagenicity:** Non-mutagenic in AMES test. (2)  
**Carcinogenicity:** Not listed as carcinogenic according to the International Agency for Research on Cancer (IARC). (2)  
**Reproductive toxicity:** No information available.  
**Specific Target Organ Toxicity (STOT) - single exposure:** May cause respiratory irritation.  
**Specific Target Organ Toxicity (STOT) - repeated exposure:** No information available.  
**Aspiration hazard:** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.  
**Persistence/degradability:** The material is readily biodegradable. (2)  
**Bioaccumulative potential:** Not expected to bioaccumulate. (2)  
**Mobility in soil:** No information available.  
**Aquatic toxicity:** Harmful to aquatic organisms.  
72hr EC50 (Algae): 450 mg/L (2)  
**Log Octanol/Water Partition Coefficient:** 2.25 (2)  
**48hr LC50 (golden orfe):** 36 - 131 mg/L (2)  
**48hr EC50 (Daphnia magna):** 42 mg/L (2)

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national, international regulations. Advise flammable nature. Normally suitable for incineration by an approved agent.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.



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**Transport Hazard Class:** 3 Flammable Liquid  
**Packing Group:** III  
**Proper Shipping Name or Technical Name:** AMYL ACETATES  
**Hazchem or Emergency Action Code:** · 3Y

## Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

**UN No:** 1104  
**Transport Hazard Class:** 3 Flammable Liquid  
**Packing Group:** III  
**Proper Shipping Name or Technical Name:** AMYL ACETATES

**IMDG EMS Fire:** F-E  
**IMDG EMS Spill:** S-D

## Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

**UN No:** 1104  
**Transport Hazard Class:** 3 Flammable Liquid  
**Packing Group:** III  
**Proper Shipping Name or Technical Name:** AMYL ACETATES

## 15. REGULATORY INFORMATION

### **Classification:**

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

### **Classification of the chemical:**

Flammable liquids - Category 3

Specific target organ toxicity (single exposure) - Category 3

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations:

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### **Hazard Statement(s):**

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**Poisons Schedule (SUSMP):** None allocated.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

(1) 'Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2019.

(2) Supplier Safety Data Sheet; 01/ 2018.

This safety data sheet has been prepared by Ixom Operations Pty Ltd (Toxicology & SDS Services).

### **Reason(s) for Issue:**

5 Yearly Revised Primary SDS

Change in Hazardous Chemical Classification

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris.