

# SAFETY DATA SHEET



Revision date: 12-May-2023

Revision Number 1

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### Product identifier

**Product Name** MAC SLAY NATURAL PYRETHRIN INSECTICIDE (Automatic Dispenser Refill Aerosols 250mL & 300mL and Multi Shot Aerosol 400mL)

**Product Code(s)** 000000054456

### Other means of identification

**UN number** 1950

**Synonyms** CIXSLAYNA4A-400ML

### Recommended use of the chemical and restrictions on use

**Recommended use** Insecticide

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Supplier

Ixom Operations Pty Ltd (Incorporated in Australia)  
NZBN: 9429041465226 Address: 166 Totara Street  
Mt Maunganui South  
New Zealand

Telephone Number: +64 9 368 2700

Facsimile: +64 9 368 2710

### For further information, please contact

**Contact Point** Product Safety Department

### Emergency telephone number

**Emergency Telephone** 0 800 734 607 (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 a Dangerous Good according to NZS 5433 Transport of Dangerous Goods on Land; DANGEROUS GOODS.

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

### GHS Classification

#### **SIGNAL WORD**

Danger

Aerosols (Flammable, Carcinogenic) Group Standard 2020

Approval Number: HSR002517

Flammable aerosols	Category 1
Aspiration hazard	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

#### Label elements



#### **Hazard statements**

H223 - Flammable aerosol  
H304 - May be fatal if swallowed and enters airways  
H317 - May cause an allergic skin reaction  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H340 - May cause genetic defects  
H350 - May cause cancer  
H410 - Very toxic to aquatic life with long lasting effects

#### **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Do not spray on an open flame or other ignition source  
Pressurized container: Do not pierce or burn, even after use  
Do not breathe fume, gas, mist, vapours, spray  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves / protective clothing / eye protection / face protection  
Use personal protective equipment as required  
In case of inadequate ventilation wear respiratory protection  
Avoid release to the environment

#### **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention  
Get medical advice/attention if you feel unwell  
Specific treatment (see First aid on this SDS)  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting  
Collect spillage

#### **Precautionary Statements - Storage**

Store locked up  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

#### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Other hazards which do not result in classification

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical name	CAS No.	Weight-%
Naphtha (petroleum), hydrotreated heavy	64742-48-9	10-40
Piperonyl butoxide	51-03-6	1-5
Pyrethrins (pyrethrum)	8003-34-7	0.05-1
Non hazardous component(s)	-	to 100

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor. Show this safety data sheet to the doctor in attendance.
<b>Emergency telephone number</b>	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26
<b>Inhalation</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. Aspiration into lungs can produce severe lung damage. Call a physician if symptoms occur.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Removal of contact lenses after an eye injury should only be taken by skilled personnel.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Ingestion</b>	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Clean mouth with water. Do NOT induce vomiting. Get medical attention if symptoms occur.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Irritation. May cause allergic skin reaction. Redness. Rashes. Hives. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Aspiration risk: may cause lung damage if swallowed.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. May cause sensitization by inhalation and skin contact. Delayed pulmonary edema may occur.
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### 5. FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media

**Suitable Extinguishing Media** Water spray or fog.

**Unsuitable extinguishing media** No information available.

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**Specific hazards arising from the chemical**

**Specific hazards arising from the chemical** Flammable. May form explosive mixtures with air. Containers may explode when heated. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Pay attention to flashback. Environmentally hazardous.

**Hazardous combustion products** Carbon oxides. Hydrocarbons.

**Special protective actions for fire-fighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Contents under pressure. Do not puncture or incinerate cans. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not breathe fume, gas, mist, vapours, spray. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** This product is a gas. Contents under pressure. Do not puncture or incinerate cans. Pick up and transfer to properly labelled containers. Do not flush residues with water. Retain as contaminated waste. Use personal protective equipment as required.

**Precautions to prevent secondary hazards**

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## **7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Keep out of reach of children. Contents under pressure. Do not puncture or incinerate cans. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not breathe fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse.

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

**Storage Conditions** Keep in a dry, cool and well-ventilated place. Protect from direct sunlight. Store away from foodstuffs and sources of heat or ignition. Keep at temperatures below 50°C / 122°F.

**Incompatible materials** Acids. Alkalis. Oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Limits** No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

Oil mist, mineral: WES-TWA 5 mg/m<sup>3</sup>, WES-STEL 10 mg/m<sup>3</sup>  
Pyrethrum: WES-TWA 5 mg/m<sup>3</sup>, dsen

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

WES - STEL (Workplace Exposure Standard - Short Term Exposure Limits) - The 15 minute average exposure standard. Applies to any 15 minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both short-term and eight-hour, time-weighted average exposures should be determined.

(dsen) - Dermal sensitiser.

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**

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

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**

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.



<b>Eye/face protection</b>	Glasses.
<b>Hand protection</b>	Impervious gloves.
<b>Skin and body protection</b>	Overalls. Protective shoes or boots. (for industrial handling).
<b>Respiratory protection</b>	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.
<b>Environmental exposure controls</b>	No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid Spray
<b>Appearance</b>	No information available
<b>Color</b>	Colourless
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	None known
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash point</b>	54°C	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	0.80-0.82	None known
<b>Water solubility</b>	Immiscible in water	None known
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known

### Other information

## 10. STABILITY AND REACTIVITY

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**Reactivity**

**Reactivity** No information available.

**Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Possibility of hazardous reactions**

**Possibility of hazardous reactions** Heating causes rise in pressure with risk of bursting.

**Conditions to avoid**

**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition. Direct sunlight. Contact with foodstuffs.

**Incompatible materials**

**Incompatible materials** Acids. Alkalis. Oxidizing agents.

**Hazardous decomposition products**

**Hazardous decomposition products** Carbon oxides. Hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Information on likely routes of exposure**

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

**Inhalation** May cause irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness. Aspiration into lungs can produce severe lung damage.

**Eye contact** May cause irritation.

**Skin contact** May cause irritation. May cause sensitization by skin contact.

**Ingestion** Not an expected route of exposure. Aspiration may cause pulmonary edema and pneumonitis.

**Symptoms** Irritation. May cause allergic skin reaction. Redness. Rashes. Hives. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Aspiration risk: may cause lung damage if swallowed.

**Acute toxicity**

**Numerical measures of toxicity**

Refer to component information below.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Naphtha (petroleum), hydrotreated heavy	> 6000 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	> 8500 mg/m <sup>3</sup> ( Rat ) 4 h
Piperonyl butoxide	= 4570 mg/kg ( Rat ) = 6150 mg/kg ( Rat )	= 1880 mg/kg ( Rabbit ) > 7950 mg/kg ( Rat )	-
Pyrethrins (pyrethrum)	= 200 mg/kg ( Rat )	= 2060 mg/kg ( Rabbit ) = 1350 mg/kg ( Rat ) = 300 mg/kg ( Rabbit )	= 3.4 mg/L ( Rat ) 4 h

See section 16 for terms and abbreviations

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	May cause sensitization by inhalation and skin contact. Classification is based on mixture calculation methods based on component data.
<b>Germ cell mutagenicity</b>	May cause genetic defects. Classification is based on mixture calculation methods based on component data.
<b>Carcinogenicity</b>	May cause cancer. Classification is based on mixture calculation methods based on component data. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as carcinogenic.

Chemical name	New Zealand	IARC
Piperonyl butoxide - 51-03-6		Group 3
Pyrethrins (pyrethrum) - 8003-34-7		Group 2A

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways. Classification is based on mixture calculation methods based on component data.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

<b>Ecotoxicity</b>	Very toxic to aquatic life with long lasting effects. Keep out of waterways.
<b>Terrestrial ecotoxicity</b>	There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Naphtha (petroleum),	-	LC50: =2200mg/L (96h, Pimephales	-



hydrotreated heavy Piperonyl butoxide	-	promelas) LC50: =7.07mg/L (96h, Oncorhynchus mykiss)	-
Pyrethrins (pyrethrum)	-	LC50: =0.054mg/L (96h, Oncorhynchus mykiss) LC50: 0.0031 - 0.0038mg/L (96h, Oncorhynchus mykiss) LC50: 0.02 - 0.03mg/L (96h, Oncorhynchus mykiss) LC50: 0.0322 - 0.0472mg/L (96h, Lepomis macrochirus) LC50: 0.003 - 0.0046mg/L (96h, Lepomis macrochirus) LC50: =0.074mg/L (96h, Lepomis macrochirus) LC50: 0.0425 - 0.121mg/L (96h, Pimephales promelas) LC50: 0.224 - 0.458mg/L (96h, Pimephales promelas)	-

**Persistence and degradability**

**Persistence and degradability** No information available.

**Bioaccumulative potential**

**Bioaccumulation** No information available.

**Mobility**

**Mobility in soil** No information available.

**Other adverse effects**

**Other adverse effects** No information available.

**Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Piperonyl butoxide	Group III Chemical	-	-

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste from residues/unused products**

Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste. Class 2, 3 and 4 chemicals - may not be disposed of into or onto a landfill or sewage facility. They may only be burnt in certain situations. Class 2.1.1, 3.1 and 4.1.1 chemicals may only be discharged into the environment as waste if the substance will not at any time come into contact with class 1 or class 5 substances; and there will be no ignition source in the vicinity of the disposal site at any time and if the substance were to ignite, no person, or place where a person may legally be, would be exposed to an unsafe level of heat radiation.

**Contaminated packaging**

For packages that have been in direct contact with hazardous chemicals, the person must ensure that the package is rendered incapable of containing any chemical. It must be disposed of in a manner that is consistent with the requirements for disposal of the chemical that it contained, taking into account the material the package is manufactured

from. Packages may only be reused or recycled if the package has been treated to remove any residual contents of the hazardous chemical (class 1, 2, 3, 4, or 5); or the contents of the residue in the package are below the threshold for the chemical to be classified as hazardous (class 6, 8, or 9 chemical).

## 14. TRANSPORT INFORMATION

<b><u>ROAD AND RAIL TRANSPORT</u></b>	Classified as a Dangerous Good according to NZS 5433 Transport of Dangerous Goods on Land; DANGEROUS GOODS.
<b>UN number</b>	1950
<b>Proper shipping name</b>	AEROSOLS
<b>Hazard class</b>	2.1
<b><u>IATA</u></b>	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.
<b>UN number</b>	1950
<b>UN proper shipping name</b>	AEROSOLS, FLAMMABLE
<b>Transport hazard class(es)</b>	2.1
<b><u>IMDG</u></b>	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.
<b>UN number</b>	1950
<b>UN proper shipping name</b>	AEROSOLS
<b>Transport hazard class(es)</b>	2.1
<b>IMDG EMS Fire</b>	F-D
<b>IMDG EMS Spill</b>	S-U
<b>Marine pollutant</b>	Yes

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### New Zealand

**National regulations** See section 8 for national exposure control parameters

#### International Inventories

<b>NZIoC</b>	Contact supplier for inventory compliance status.
<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AIIC</b>	Contact supplier for inventory compliance status.

#### Legend:

**NZIoC** - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIIC- Australian Inventory of Industrial Chemicals**

### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

## **16. OTHER INFORMATION**

Supplier Safety Data Sheet 02/ 2020

**Prepared By** This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

**Issuing Date:** 12-May-2023

**Reason(s) For Issue:** First Issue Primary SDS

### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian Industrial Chemicals Introduction Scheme (AICIS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Disclaimer**

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 Ixom 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.

**End of Safety Data Sheet**