# SAFETY DATA SHEET



Revision date: 13-Feb-2024

### Revision Number 3

# **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product identifier		
Product Name	F420	
Product Code(s)	00000053177	
Other means of identification		
CAS No.	136210-30-5	
Recommended use of the chemical	and restrictions on use	
Recommended use	Polyurea coating.	
Uses advised against	No information available	
Details of the supplier of the safety data sheet		
<u>Supplier</u> Ixom Operations Pty Ltd (Incorporated NZBN: 9429041465226 Address: 166 Mt Maunganui South New Zealand	,	
Telephone Number: +64 9 368 2700 Facsimile: +64 9 368 2710		
For further information, please cont	act	
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

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.

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

#### GHS Classification

#### SIGNAL WORD Warning

Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020 Approval Code: HSR002503

### Skin sensitization

Category 1

Label elements



Hazard statements H317 - May cause an allergic skin reaction

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

Avoid breathing vapors or mists Contaminated work clothing should not be allowed out of the workplace Wear protective gloves/protective clothing **Precautionary Statements - Response** 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 **Precautionary Statements - Storage** No storage statements **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

Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Aspartic acid,	136210-30-5	95-100
N,N'-(methylenedi-4,1-cyclohexanediyl)bis-,		
tetraethyl ester		
Non hazardous component(s)	-	0-5

## 4. FIRST AID MEASURES

#### Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.
Inhalation	Remove to fresh air. Call a physician if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head

below hips to prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention immediately if symptoms occur.

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

Symptoms	Irritation. May cause allergic skin reaction. Redness. Rashes. Hives.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically. May cause sensitization by skin contact.	

5. FIRE FIGHTING MEASURES		
Suitable Extinguishing Media		
Suitable Extinguishing Media	Dry chemical or CO2. Dry sand. Foam.	
Large Fire	Water spray or fog.	
Unsuitable extinguishing media	No information available.	
Specific hazards arising from the chemical		
Specific hazards arising from the chemical	Combustible liquid. Product is or contains a sensitizer. May cause sensitization by skin contact. Environmentally hazardous.	
Hazardous combustion products	Carbon oxides. Nitrogen oxides. Amines.	
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	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation. Evacuate personnel to safe areas. Use personal protective equipment as required. Wash thoroughly after handling.	
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	Dike far ahead of liquid spill for later disposal. Stop leak if you can do it without risk.	
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.	

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	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Use personal protection equipment. Wash thoroughly after handling. Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep in a dry, cool and well-ventilated place. Keep at temperatures below 40°C / 104°F. Store away from sources of heat or ignition. Keep container closed when not in use.	
Incompatible materials	Oxidizing agents. Acids. Alkalis. Acid chlorides. Acid anhydrides. Isocyanates.	

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Limits No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority.

#### Appropriate engineering controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

#### 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.



Respiratory protection	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.
Environmental exposure controls	No information available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Transparent Colourless to Light yellow Green	
Odor Odor threshold	Slight Characteristic No information available	
Property	Values	Remarks • Method
рН	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	Decomposes	
Flash point	>93°C	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	
Relative density	1.06 ±0.02 g/cm³ at 25°C	
Water solubility	No data available	
Solubility(ies)	No data available	None known
Partition coefficient	ca. 5.16 at 20°C (n-octanol/water)	None known
Autoignition temperature	No data available	None known
Hyphen	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	800 $\sim$ 2000 mPa.s at 25°C	

Other information

# **10. STABILITY AND REACTIVITY**

Reactivity	
Reactivity	Hygroscopic: absorbs moisture or water from surrounding air.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

Possibility of hazardous reactions	
Hazardous polymerization	Hazardous polymerization does not occur.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	Heat, flames and sparks. UV-radiation/sunlight. Static discharge (electrostatic discharge). Moisture.
Incompatible materials	
Incompatible materials	Oxidizing agents. Acids. Alkalis. Acid chlorides. Acid anhydrides. Isocyanates.
Hazardous decomposition products	
Hazardous decomposition products Carbon oxides. Nitrogen oxides. Amines.	

# **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.
Eye contact	May cause irritation.
Skin contact	May cause irritation. May cause sensitization by skin contact.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Symptoms	Irritation. May cause allergic skin reaction. Redness. Rashes. Hives.

Acute toxicity

Numerical measures of toxicity

On basis of test data			
Oral LD50	>	2000	mg/kg (rat)
Dermal LD50	>	2000	mg/kg (rat)
Inhalation LC50	>	4224	mg/m³

See section 16 for terms and abbreviations

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

Skin corrosion/irritation	Not classified.
Serious eye damage/eye irritation	Not classified.
Respiratory or skin sensitization	A skin sensitizer. (guinea pig).

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	No information available.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	No information available.

# 12. ECOLOGICAL INFORMATION

Ecotoxicity	
Ecotoxicity	Keep out of waterways. Harmful to aquatic life with long lasting effects.
Terrestrial ecotoxicity	There is no data for this product.
Persistence and degradability	
Persistence and degradability	Not readily biodegradable.
Bioaccumulative potential	
Bioaccumulation	No information available.
<u>Mobility</u>	
Mobility in soil	No information available.
Other adverse effects	
Other adverse effects	No information available.
42 DIEDOGAL CONCIDED	ATIONS

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Waste from residues/unused products	Dispose of product in packaging/container in a way that is consistent with the Hazardous Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments and Revocations) Notice 2020. 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.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **14. TRANSPORT INFORMATION**

ROAD AND RAIL TRANSPORT	Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.
<u>IATA</u>	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.
IMDG	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

### **15. REGULATORY INFORMATION**

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

New Zealand
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National regulations	See section 8 for national exposure control parameters	
International Inventories		
NZIOC	All the constituents of this material are listed on the New Zealand Inventory of Chemicals.	
TSCA	Contact supplier for inventory compliance status.	
DSL/NDSL	Contact supplier for inventory compliance status.	
EINECS/ELINCS	Contact supplier for inventory compliance status.	
ENCS	Contact supplier for inventory compliance status.	
IECSC	Contact supplier for inventory compliance status.	

 KECL
 Contact supplier for inventory compliance status.

 PICCS
 Contact supplier for inventory compliance status.

 AIIC
 All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals.

Legend:

NZIOC - New Zealand Inventory of Chemicals

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

**DSL/NDSL** - 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

AllC- 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 06/ 2023

Prepared By	This Safety Data Sheet SDS Services).	has been prepa	ared by Ixom Operations Pty Ltd (Toxicology and
Issuing Date:	13-Feb-2024		
Reason(s) For Issue:	5 Yearly Revised Prima	ary SDS	
<b>Revision Note:</b> The symbol (*) in the margin of this S	DS indicates that this line	has been revis	ed.
Key or legend to abbreviations and Legend Section 8: EXPOSURE CON			eet
TWATWA (time-weightCeilingMaximum limit valCCarcinogen	ted average)	STEL *	STEL (Short Term Exposure Limit) Skin designation
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