

### SECTION 1: Product identifier

#### 1.1. GHS Product identifier

Product form : Mixture  
Product name : Flocon 260  
Product code : 1617000VP

#### 1.2. Other means of identification

Other means of identification : 161700EPP, 161700EPR, 161700FHR, 1617000VP, 1617001VR, 1617002VR, 1617003VR, 1617004VR

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

Recommended use : Antiscaling agent  
Restrictions on use : Not to be used for any purpose other than the one the product was designed for

#### 1.4. Details of manufacturer or importer

IMCD Australia Pty Ltd  
P.O. Box 689 | Level 1, 352 Wellington Rd.  
Mulgrave VIC 3170, Australia  
T +61 (03) 8544 3100 - F +61 (03) 8544 3299  
[sds@imcd.com.au](mailto:sds@imcd.com.au) - [www.IMCDgroup.com](http://www.IMCDgroup.com)

#### 1.5. Emergency phone number

Emergency number : EMERGENCY CONTACTS  
POLICE or FIRE BRIGADE: 000  
EMERGENCY RESPONSE: 1800 625 526

### SECTION 2: Hazard identification

#### 2.1. Classification of the hazardous chemical

##### Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Corrosive to metals, Category 1 H290  
Serious eye damage/eye irritation, Category 1 H318

#### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Corrosion

Signal word (GHS AU) : Danger  
Contains : Polycarboxylic acid 2 (generic name) (10 – 30 %); Polycarboxylic acid 1 (generic name) (10 – 30 %); Etidronic acid (1-5 %)  
Hazard statements (GHS AU) : H290 - May be corrosive to metals  
H318 - Causes serious eye damage  
Precautionary statements (GHS AU) : P234 - Keep only in original container.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.  
P390 - Absorb spillage to prevent material damage.

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

No additional information available

## SECTION 3: Composition and information on ingredients

Name	CAS-No.	%
Polycarboxylic acid 2 (generic name)	Proprietary AW	10 – 30
Polycarboxylic acid 1 (generic name)	Proprietary AV	10 – 30
Etidronic acid	2809-21-4	1-5

## SECTION 4: First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center or a doctor if you feel unwell.

### 4.2. Symptoms caused by exposure

Symptoms/effects after eye contact	: Serious damage to eyes.
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### 4.3. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical. Sand. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Unsuitable extinguishing media are not known.

### 5.2. Specific hazards arising from the chemical

General measures	: No action shall be taken without appropriate training or involving any personal risk. Notify authorities if product enters sewers or public waters.
Hazardous decomposition products in case of fire	: Thermal decomposition can lead to the release of irritating gases and vapours.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Cool closed containers exposed to fire with the recommended extinguishing media. Move container from fire area if it can be done without risk. Prevent fire-fighting water to be discharged into drains. Prevent fire fighting water from entering the environment. Exercise caution when fighting any chemical fire. Keep upwind. Fight fire from safe distance and protected location.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchem Code	: 2X

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : No action shall be taken without appropriate training or involving any personal risk. Notify authorities if product enters sewers or public waters.
- 6.1.1. For non-emergency personnel
- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.
- 6.1.2. For emergency responders
- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and materials for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Does not require any specific or particular technical measures.
- Storage conditions : Keep container tightly closed. Store in a dry place. Store in a well-ventilated place. Keep cool. Store at temperature below 50°C /122°F. Do not freeze. Protect from sunlight. If frozen: once thawed, agitate container vigorously to ensure the product is homogeneous. Store away from corrosive materials (strong acids or bases). Store away from reducing agents. Store away from oxidising agents. Do not use aluminium and aluminium alloys containers. Do not use carbon steel containers. Store away from food, drink and animal feeding stuffs. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store in a well-ventilated place. Keep cool.
- Incompatible materials : Metals.
- Information on mixed storage : Store away from incompatible materials and products. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
- Storage area : Keep out of direct sunlight.
- Special rules on packaging : Position containers so that any labeling information is visible. Keep packaging closed when not in use. Check containers and packaging regularly for leaks and damage.
- Packaging materials : Keep only in original packaging.

### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters - exposure standards

No additional information available

#### 8.2. Monitoring methods

- Monitoring methods : Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

#### 8.3. Engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.

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### 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment	: Personal protective equipment (PPE) must be suited to the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. Avoid all unnecessary exposure. Ocular shower with suitable liquid.
Hand protection	: Wear gloves resistant to chemical penetration: Polyvinylchloride (PVC), Nitrile rubber (NBR), Butyl rubber (IIR)
Eye protection	: Wear a face shield. Safety glasses
Skin and body protection	: Wear foot protection: Chemical resistant boots. Wear protective clothing: Impervious clothing
Respiratory protection	: If mist is formed : Disposable half mask

#### Personal protective equipment symbol(s)



Environmental exposure controls	: Avoid release to the environment.
Other information	: The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Industrial Clothing: AS2919, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

### SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: pale Yellow
Odour	: slight acidic
Odour threshold	: No data available
pH	: < 2
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: < 0
Melting point / Freezing point	: Melting point: Not applicable Freezing point: < -5 °C
Boiling point	: 100 – 102 °C
Flash point	: Not available
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: Relative density: 1.14 – 1.17
Solubility	: Water: Miscible in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 9 - 15 mm <sup>2</sup> /s @ 25 °C
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: No data available
Minimum ignition energy	: No data available
Fat solubility	: No data available

### SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: metals.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

Acute toxicity (oral)	: Not classified as hazardous.
Acute toxicity (dermal)	: Not classified as hazardous.
Acute toxicity (inhalation)	: Not classified as hazardous.

#### Etidronic acid (2809-21-4)

LD50 oral rat	3130 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
Skin corrosion/irritation	: Not classified as hazardous. pH: < 2
Serious eye damage/irritation	: Causes serious eye damage. pH: < 2
Respiratory or skin sensitisation	: Not classified as hazardous.
Germ cell mutagenicity	: Not classified as hazardous.
Carcinogenicity	: Not classified as hazardous.

#### Etidronic acid (2809-21-4)

NOAEL (chronic, oral, animal/male, 2 years)	≥ 384 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (chronic, oral, animal/female, 2 years)	≥ 493 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Reproductive toxicity	: Not classified as hazardous.
STOT-single exposure	: Not classified as hazardous.
STOT-repeated exposure	: Not classified as hazardous.

#### Etidronic acid (2809-21-4)

LOAEL (oral, rat, 90 days)	169 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (oral, rat, 90 days)	41 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
Aspiration hazard	: Not classified as hazardous.

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Viscosity, kinematic	9 - 15 mm <sup>2</sup> /s @ 25 °C
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### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified as hazardous.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified as hazardous.

#### Etidronic acid (2809-21-4)

LC50 - Fish [1]	868 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 - Fish [2]	360 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	527 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	1770 mg/l Test organisms (species): Palaemonetes pugio
NOEC (acute)	1000 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
NOEC (chronic)	6.75 mg/l Test organisms (species): Daphnia magna Duration: '28 d'
BCF - Fish [1]	< 50

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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### Etidronic acid (2809-21-4)

BCF - Fish [1]	< 50
Partition coefficient n-octanol/water (Log Pow)	3.49

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified as hazardous.  
Other adverse effects : No additional information available

#### Flocon 260

Fluorinated greenhouse gases	False
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#### Polycarboxylic acid 1 (generic name) (Proprietary AV)

Fluorinated greenhouse gases	False
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#### Polycarboxylic acid 2 (generic name) (Proprietary AW)

Fluorinated greenhouse gases	False
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#### Etidronic acid (2809-21-4)

Fluorinated greenhouse gases	False
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## SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

ADG	IMDG	IATA
<b>14.1. UN number</b>		
3265	3265	3265
<b>14.2. UN Proper Shipping Name</b>		
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (polycarboxylic acids and a phosphonic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (polycarboxylic acids and a phosphonic acid)	Corrosive liquid, acidic, organic, n.o.s. (polycarboxylic acids and a phosphonic acid)
<b>14.3. Transport hazard class(es)</b>		
8	8	8
		
<b>14.4. Packing group</b>		
III - Substances presenting low danger	III	III

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ADG	IMDG	IATA
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

### 14.6. Special precautions for user

Specific storage requirement : No data available  
Shock sensitivity : No data available

### 14.7. Additional information

Other information : IERG Number: 37. EPG Number: 8A1  
Special transport precautions : Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7.

#### Transport by road and rail

UN-No. (ADG) : 3265  
Special provision (ADG) : 223, 274  
Limited quantities (ADG) : 5I  
Packing instructions (ADG) : P001, IBC03, LP01  
Portable tank and bulk container instructions (ADG) : T7  
Portable tank and bulk container special provisions (ADG) : TP1, TP28

#### Transport by sea

UN-No. (IMDG) : 3265  
Special provisions (IMDG) : 223, 274  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28  
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE  
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES  
Stowage category (IMDG) : A  
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

#### Air transport

UN-No. (IATA) : 3265  
PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y841  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 852  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 856  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A803  
ERG code (IATA) : 8L

### 14.8. Hazchem or Emergency Action Code

Hazchem Code : 2X

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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations specific for the product in question

##### Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS : All components of this product are listed on or exempt from AICC. Inventory) status

#### 15.2. International agreements

No additional information available

### SECTION 16: Other information

Data sources : Safe Work Australia - Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals  
Safe Work Australia - Code of Practice - Labelling of Workplace Hazardous Chemicals  
Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants  
Safe Work Australia - Hazardous Chemical Information System (HCIS)  
Australian Inventory of Industrial Chemicals (AICIS Inventory)  
Environmental Protection Authority - Hazardous Substances (Hazard Classification) Notice 2020  
Environmental Protection Authority - Hazardous Substances (Safety Data Sheets) Notice 2017  
Environmental Protection Authority - Hazardous Substances (Labelling) Notice 2017  
New Zealand - Chemical Classification and Information Database (CCID)  
New Zealand - Inventory of Chemicals (NZIoC)  
European Chemicals Agency (ECHA) - Annex VI (C&L Inventory)  
European Chemicals Agency (ECHA) - REACH Study Results  
European Chemicals Agency (ECHA) - REACH Registration Dossiers  
United Nations - Globally Harmonised System of Classification and Labelling of Chemicals (GHS)  
Uniform Scheduling of Medicines and Poisons (SUSMP)  
United Nations Recommendations on the Transport of Dangerous Goods (UNRTDG Model Regulation)  
Australian Dangerous Goods Code (ADG Code)  
International Air Transport Association Dangerous Goods Regulations (IATA DGR)  
International Maritime Dangerous Goods (IMDG Code).

Revision date : 23/06/2023

#### Classification

Met. Corr. 1	H290
Eye Dam. 1	H318

#### Full text of H-statements

Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Aquatic Acute 2	Hazardous to the aquatic environment — Acute Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr./Irrit. Not classified	Skin corrosion/irritation Not classified
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals



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Full text of H-statements	
H303	May be harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), Australia

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.