

# Safety Data Sheet

**Hazardous, NON-Dangerous Goods**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **GALAXIE PU FLEX**

**Synonyms**

GALAXIE PU Flex 20KG

**Product Code**

GALPUF20

**Recommended use:** Hydrophobic polyurethane, semi-flexible grout for leak sealing.

**Supplier:** Tam Australia Pty Ltd  
**ABN:** 35 637 639 251  
**Street Address:** 314 Glen Osmond Road,  
Myrtle Bank, SA 5064  
Australia  
**Website** tamaustralia.com.au

**Emergency Telephone number:** Australia – 131 126, New Zealand 0800 764

## 2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia GHS 7.



**Signal Word**

Danger

**Hazard Classifications**

Acute Toxicity - Inhalation - Category 4  
Skin Corrosion/Irritation - Category 2 Eye  
Damage/Irritation - Category 2A  
Sensitisation - Respiratory - Category 1A  
Sensitisation - Skin - Category 1A  
Carcinogenicity - Category 2  
Reproductive Toxicity - Category 2  
Specific Target Organ Toxicity (Single Exposure) - Category 3 Respiratory Tract Irritation  
Specific Target Organ Toxicity (Repeated Exposure) - Category 2

**Hazard Statements**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer .  
H361 Suspected of damaging fertility or the unborn child .  
H373 May cause damage to organs through prolonged or repeated exposure.

**Prevention Precautionary Statements**

**Product Name:** GALAXIE PU FLEX

**Reference No:** GALPUF

**Issued:** 21 May 2025

**Version:** 2.0

**Page** 1 of 7

# Safety Data Sheet

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust, fume, gas, mist, vapours or spray.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing including eye/face protection.
P284	In case of inadequate ventilation wear respiratory protection.

## Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
P362+P364	Take off contaminated clothing and wash it before reuse

## Storage Precautionary Statements

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

## Disposal Precautionary Statement

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
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**Poison Schedule:** S6. Poison

## DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

## 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	30 - 60 % (w/w)
Ingredients determined to be non-hazardous or below reporting limits		Balance
		100%

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Effects may be delayed. Remove victim from 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. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial

## Safety Data Sheet

respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

**Skin Contact:** Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

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

**PPE for First Aiders:** Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically. Effects may be delayed.

### 5. FIRE FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Combustible material.

**Fire fighting further advice:** On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

### 6. ACCIDENTAL RELEASE MEASURES

#### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

#### LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

**Dangerous Goods - Initial Emergency Response Guide No:** Not applicable

### 7. HANDLING AND STORAGE

# Safety Data Sheet

**Handling:** Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is a Scheduled Poison Schedule 6 (Poison) and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measures:** Natural ventilation should be adequate under normal use conditions.

**Personal Protection Equipment:** SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR.

Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Viscous Liquid  
**Colour:** Amber-coloured  
**Odour:** Mild, characteristic.

**Solubility:** Insoluble in water. Soluble in organic solvents.  
**Specific Gravity:** 1.08  
**Relative Vapour Density (air=1):** >1  
**Vapour Pressure:** N Av  
**Flash Point (°C):** >93  
**Flammability Limits (%):** N App  
**Autoignition Temperature (°C):** N Av  
**Melting Point/Range (°C):** N Av  
**Boiling Point/Range (°C):** N Av  
**pH:** N App  
**Viscosity:** >20.5 mm<sup>2</sup>/s @ 40 °C  
**Total VOC (g/Litre):** N Av

(Typical values only - consult specification sheet)  
N Av = Not available, N App = Not applicable

# Safety Data Sheet

## 10. STABILITY AND REACTIVITY

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

**Hazardous reactions:** No known hazardous reactions.

## 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:

### Acute Effects

**Inhalation:** Harmful if inhaled. Material is an irritant to mucous membranes and respiratory tract. A respiratory sensitiser. Can cause possible allergic reactions.

**Skin contact:** Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant.

### Acute toxicity

**Inhalation:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients):  $10.0 < LC_{50} \leq 20.0$  mg/L for vapours or  $1.0 < LC_{50} \leq 5.0$  mg/L for dust and mist.

**Skin contact:** This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients):  $LD_{50} > 2,000$  mg/Kg bw

**Ingestion:** This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients):  $LD_{50} > 2,000$  mg/Kg bw

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

**Sensitisation:** Inhalation: this material has been classified as a Category 1A Hazard (respiratory sensitiser). Skin: this material has been classified as a Category 1A Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as not an aspiration hazard.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as not a mutagen.

**Carcinogenicity:** This material has been classified as a Category 2 Hazard.

# Safety Data Sheet

**Reproductive toxicity (including via lactation):** This material has been classified as a Category 2 Hazard.

**Specific target organ toxicity (repeat exposure):** This material has been classified as a Category 2 Hazard.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients): > 100 mg/L

**Long-term aquatic hazard:** This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K<sub>ow</sub> <4.

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

Basel Convention (Hazardous Waste)

International Convention for the Prevention of Pollution from Ships (MARPOL)

# Safety Data Sheet

## **This material/constituent(s) is covered by the following requirements:**

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth): S6. Poison.

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

NZ EPA Status: All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

**HSNO Group Standard:** HSR002679 - Surface Coatings and Colourants (Carcinogenic) Group Standard 2020

## **16. OTHER INFORMATION**

Reason for issue: Revised

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since the company cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

## Safety Data Sheet

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** GALAXIE PU FlexKat

**Synonyms**  
Galaxie FlexKat

**Product Code**  
GALFLKT

**Recommended use:** Accelerator for use with PU Flex

**Supplier:** Tam Australia Pty Ltd  
**ABN:** 35 637 639 251  
**Street Address:** 314 Glen Osmond Road,  
Myrtle Bank, SA 5064  
Australia  
**Website** tamaustralia.com.au

**Emergency Telephone number:** Australia – 131 126, New Zealand 0800 764 766

### 2. HAZARDS IDENTIFICATION

**GHS Classification** Category 2B  
**Serious eye damage/eye irritation**

**GHS label elements**  
**Hazard pictograms** None  
**Signal Word** Warning

**Hazard Statements** H320 Causes eye irritation

**Precautionary Statements**

**Prevention:** P264 Wash skin thoroughly after handling.  
**Response:** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:** Not available  
**Disposal:** Not available

Other hazards which do not result in classification  
None known.

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
2,2'-dimorpholinyl-diethyl ether	6425-39-4	>10%- <30%
Ingredients determined to be non-hazardous or below reporting limits		rest
		100%

## Safety Data Sheet

### 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed: Causes eye irritation.

Protection of first-aiders First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

No action shall be taken involving any personal risk or without suitable training.

Notes to physician : Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

**Unsuitable extinguishing media:** Exercise caution when using a high-volume water jet as it may scatter and spread fire.

**Specific hazards during firefighting:** No information available.

**Hazardous combustion products:** Carbon oxides Nitrogen oxides (NOx)

**Specific extinguishing methods:** No action shall be taken involving any personal risk or without suitable training.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

**Handling:** Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

## Safety Data Sheet

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measures:** Natural ventilation should be adequate under normal use conditions.

**Personal Protection Equipment:** SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES.

Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Liquid  
**Colour:** Clear  
**Odour:** Mild, characteristic

<b>Solubility:</b>	Dispersible in water
<b>Specific Gravity:</b>	0.97
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N App
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N App
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	N App
<b>Viscosity:</b>	N Av
<b>Total VOC (g/Litre):</b>	N Av

(Typical values only - consult specification sheet)  
N Av = Not available, N App = Not applicable

### 10. STABILITY AND REACTIVITY

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Conditions to avoid:** None Known.

**Incompatible materials:** None Known.

**Hazardous decomposition products:** None Known.

**Hazardous reactions:** No known hazardous reactions.

## Safety Data Sheet

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

Components:

2,2'-dimorpholinyl-diethyl ether:

Acute oral toxicity : LD50 (Rat, male and female): 2,025 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, male and female): 3,038 mg/kg

Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Not classified due to lack of data.

Components:

2,2'-dimorpholinyl-diethyl ether:

Species : Rabbit

Exposure time : 4 h

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

#### Serious eye damage/eye irritation

Causes eye irritation.

Components:

2,2'-dimorpholinyl-diethyl ether:

Species : Rabbit

Result : Mild eye irritation

Method : OECD Test Guideline 405

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified due to lack of data.

##### Respiratory sensitisation

Not classified due to lack of data.

Components:

2,2'-dimorpholinyl-diethyl ether:

Test Type : Buehler Test

Exposure routes : Skin

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

#### Chronic toxicity

##### Germ cell mutagenicity

Not classified due to lack of data.

Components:

2,2'-dimorpholinyl-diethyl ether:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476

Result: negative

Test Type: reverse mutation assay

Test system: Salmonella tryphimurium and E. coli Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Product Name: GALAXIE PU FlexKat

Reference No: GALFLKT

Issued: 21 November 2025

Version: 2.0

Page 4 of 6

## Safety Data Sheet

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female) Application Route: Oral  
Dose: 500/1000/2000 mg/kg bw/day Method: OECD Test Guideline 474 Result: negative

### Carcinogenicity

Not classified due to lack of data.

### Reproductive toxicity

Not classified due to lack of data.

Components:

2,2'-dimorpholinyl-diethyl ether:

Effects on fertility : Test Type: Combined Repeated Dose Toxicity Study with the  
Reproduction / Developmental Toxicity Screening Test Species: Rat, male and female

Application Route: Oral

Dose: 0, 50, 150, 300 milligram per kilogram

General Toxicity Parent: NOAEL: 300 mg/kg body weight General Toxicity F1: NOAEL: 300 mg/kg body weight

Method: OECD Test Guideline 422

Result: **negative**

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female Application Route: Oral

Dose: 75, 250, 750 milligram per kilogram Duration of Single Treatment: 14 d

General Toxicity Maternal: NOAEL: 75 mg/kg body weight Developmental Toxicity: NOAEL: 750 mg/kg body  
weight Method: OECD Test Guideline 414

Result: No effects on fertility and early embryonic development were detected.

Remarks: Information given is based on data obtained from similar substances.

### STOT-single exposure

Not classified due to lack of data.

### STOT-repeated exposure

Not classified due to lack of data.

### Repeated dose toxicity

Components:

2,2'-dimorpholinyl-diethyl ether:

Species : Rat, male and female

NOEC : 181 mg/m3

Application Route : inhalation (vapor)

Exposure time : 5 days/week 104 Weeks

Number of exposures : 6 h

Dose : 0, 10, 50, 150 ppm

Method : OECD Test Guideline 452

Remarks : Information given is based on data obtained from similar substances.

Species : Rat, male and female

NOAEL : 300 mg/kg

Application Route : oral (gavage)

Dose : 0, 50, 150, 300 mg/kg

Method : OECD Test Guideline 422

### Aspiration toxicity

Not classified due to lack of data.

### Experience with human exposure

No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Components:

2,2'-dimorpholinyl-diethyl ether:

Product Name: GALAXIE PU FlexKat

Reference No: GALFLKT

Issued: 21 November 2025

Version: 2.0

Page 5 of 6

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## Safety Data Sheet

Toxicity to fish: LC50 (Brachydanio rerio (zebrafish)): > 2,150 mg/l Exposure time: 96 h  
Test Type: static test Analytical monitoring: no Test substance: Fresh water  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD  
Test Guideline 202

Toxicity to algae/aquatic plants: NOEC (Selenastrum capricornutum (green algae)): 100 mg/l Exposure time: 72 h  
Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201  
ErC50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test  
Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201

Toxicity to microorganisms: EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: static test Test  
substance: Fresh water Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

2,2'-dimorpholinyl-diethyl ether:

Biodegradability: aerobic Inoculum: Mixture Concentration: 100 mg/l Result: Not biodegradable Biodegradation: 4 %  
Exposure time: 28 d Method: OECD Test Guideline 301C

Stability in water: Degradation half life (DT50): 1 yr (55 °C) pH: 7 Remarks: Fresh water

### Bioaccumulative potential

#### Components:

2,2'-dimorpholinyl-diethyl ether:

Bioaccumulation: Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 3 Exposure time: 56 d  
Temperature: 25 °C Test substance: Fresh water Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water - :log Pow: 0.5 (25 °C) pH: 9 Method: OECD Test Guideline 117 GLP: no

### Mobility in soil

#### Components:

2,2'-dimorpholinyl-diethyl ether:

Distribution among environmental compartments: log Koc: 3.27 Method: Calculation method Remarks: Slightly  
mobile in soils

### Other adverse effects

#### Components:

2,2'-dimorpholinyl-diethyl ether:

Results of PBT and vPvB assessment: Substance is not persistent, bioaccumulative, and toxic (PBT).

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## Safety Data Sheet

### 14. TRANSPORT INFORMATION

#### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

#### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

#### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### 15. REGULATORY INFORMATION

#### This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

#### This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC).
- All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

### 16. OTHER INFORMATION

Reason for issue: Revised

Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since the company cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.