

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

PRODUCT IDENTIFIER

Product Name: Fulvic Acid
Synonyms: 1H,3H-Pyran[4,3-b][1] benzopyran-9-carboxylic acid, 4,10-dihydro-3,7,8-trihydroxy-3-methyl-10-oxo-
Proper Shipping Name: Fulvic Acid
Chemical Formula: C135 H182 O95 N5 S2
Product Code: R-F1325
CAS Number: 479-66-3

PRODUCT USE

Recommended Use: Fertiliser, Soil amendment

SUPPLIER DETAILS

Company Name: Metabolik
Address: 50 Central Park Drive, Henderson, Auckland 0610, New Zealand
Telephone: 0064 9 834 3783
Email: info@imageholdings.co.nz
Website: www.imageholdings.co.nz

EMERGENCY TELEPHONE NUMBERS

National Poisons Information Centre: 0800 POISON (0800 764 766)
Emergency Telephone Number: **0800 764 766**
Other Emergency Numbers: **0064 21 934 058**
Transport Emergency: 111: Tell operator what service is needed: Fire, Ambulance, Police.
 Please ensure that the limitations of this Safety Data Sheet are referred to as set out in Section 16: Other Information at the end of this document.

Section 2: HAZARD IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR COMPOSITION

Transport Classification: Not Classified as a Dangerous Goods according to NZS 5433:2012 Transport of Dangerous Goods on Land
Hazard Classifications: Not Classified as hazardous according to criteria in the Hazardous Substances & New Organisms Act 2015
Approval Number: Non-hazardous
Classification Determined by using GHS/HSNO Criteria: Not applicable

LABEL REQUIREMENTS

Signal Word: Not applicable
Pictogram: Not applicable

HAZARD STATEMENT[s] Not applicable

PRECAUTIONARY STATEMENT(s):

Prevention: Not applicable
Response: Not applicable
Storage: Not applicable
Disposal: **P501:** Dispose of contents/container *in accordance with local/regional/national/international regulation*
Other Hazards: None known

Section 3: COMPOSITION INFORMATION

COMPONENT	CAS No.	PROPORTION	HAZARD CODES
Fulvic Acid	479-66-3	<=100%	n/a

Section 4: FIRST AID MEASURES

FIRST AID MEASURES

Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.

Inhalation:	If Inhalation of product occurs: <ul style="list-style-type: none">• Remove patient from area of exposure – avoid becoming a casualty.• Remove contaminated clothing and loosen remaining clothing• Allow patient to assume comfortable position and keep warm and rested.• Provide emergency airway support if required• If breathing is shallow or has stopped ensure airway is clear and apply resuscitation.• Seek medical assistance
Ingestion:	If ingestion occurs: <ul style="list-style-type: none">• DO NOT induce vomiting.• Clean mouth with Water and then drink plenty of water, seek medical attention.• For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766) or Doctor• Never give anything by mouth to an unconscious person.• Seek medical assistance
Skin:	If skin contact occurs: <ul style="list-style-type: none">• Remove all contaminated clothing immediately• Wash affected area thoroughly with water• Seek medical assistance.
Eye:	If this product comes in contact with eyes: <ul style="list-style-type: none">• Immediately hold eyelids open and flush the eye continuously with running water• Continue flushing until advised to stop by Poisons Information Centre or a doctor, or for at least 15 minutes to prevent permanent injury• Remove contact lenses if present and easy to do.• Seek medical assistance
Advice to Doctor:	Treat symptomatically. Refer to National Poisons & Hazardous Chemicals Information Centre 0800 764 766

Section 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

If material is involved in fire use:	<ul style="list-style-type: none">▪ There is not restriction on type of media which may be used▪ Use extinguishing media suitable for surrounding fire based on surrounding materials▪ Use Carbon dioxide or suitable dry chemical extinguisher▪ Water Fog or Water Spray▪ Do not use water jets
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SPECIFIC HAZARDS

Hazards of Combustion:	None known
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ADVICE TO FIREFIGHTERS

Fire Fighting	<ul style="list-style-type: none">▪ Alert Fire Brigade and tell them location and nature of hazard▪ Wear self-contained breathing apparatus plus suitable protective clothing▪ Prevent, spillage from entering drains and water courses▪ Use firefighting procedures suitable for surrounding area
Protective Equipment:	<ul style="list-style-type: none">▪ Fire fighters should wear a positive pressure self-contained breathing apparatus [SCBA]▪ protective firefighting clothing [includes firefighting helmet, coat, trousers, boots and gloves]▪ chemical splash suit
Fire/Explosion Hazard:	Decomposition may produce toxic fumes of carbon monoxide, carbon dioxide
Hazchem Code:	None known

Section 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Wear suitable protective clothing, **See section 8**

ENVIRONMENTAL PRECAUTIONS Do not allow container or product to enter drains, sewers, streams or ponds. If contamination occurs advise local emergency services **See Section 12**

SPILLS & CONTAINMENT

Minor Spill

- Contain Spill
- Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.
- Avoid accidents, clean up immediately.
- Increase ventilation.
- Avoid walking through spilled product.
- Isolate the danger area.
- Use clean, non-sparking tools and equipment.
- Mechanically collect as much of the spill as possible
- Shut off all possible sources of ignition

Major Spill

- **Low Hazard**
- Contain Spill
- CAUTION: Advise personnel in area / surrounding area
- Contact Emergency Services [111], inform them of location and nature of hazard
- Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.

DISPOSAL

- Reuse if possible
- Spill on areas other than pavement, dirt or sand may be handled by removing the affected soils and placing into approved containers
- Transfer to suitable, labelled, corrosion-resistant containers and dispose of promptly as hazardous waste.
- Dispose of in accordance with local and national regulations

Section 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS

Safe Handling

- Ensure an eye bath and safety shower are available and ready to use.
- Avoid Personal contact, including inhalation
- Wear protective clothing when risk of exposure occurs
- Use in well ventilated area
- Keep out of reach of children

Certified Handler: Not required

Tracking: Not required

Record Keeping: Not required

STORAGE PRECAUTIONS

Suitable Container:

- Store in manufacturers original packaging

Safe Storage:

- Store in original containers
- Keep containers closed when not in use
- Store in a cool, dry, well ventilated place
- Keep out of direct sunlight.
- Store away from sources of heat or ignition.
- Check regularly for spills.
- Store away from incompatible materials, foodstuff and containers

Storage Incompatibility:

- Strong oxidising agents, high pH acids

Other Information:

- Dispose of in accordance with regulatory authority, local and national guidelines
- Always read label before use.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

CONTROL PARAMETERS

Ingredient Data:

Source	Ingredient	TWA	STEL	Notes
Particulates not otherwise classified		10mg/m ³	Not Available	Inspirable dust
Particulates not otherwise classified		3mg/m ³	Not Available	Dust

EXPOSURE CONTROLS

Engineering Controls:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection

Protective Equipment:



Product Name: **Fulvic Acid**
Reference: IHL-SDS136

Issue Date: 22/01/2020
Review Date: 22/01/2025
Version: 1

Eye & Face Protection:	<ul style="list-style-type: none"> Chemical goggles Restrict use of contact lenses
Skin Protection:	<ul style="list-style-type: none"> Wear chemical resistant gloves Always wash hands before eating, drinking or using facilities Protective foot wear
Respiratory Protection:	<ul style="list-style-type: none"> Particulate. [AS/NZ 1716, EN 143:2000 & 149:001, ANSI Z88 or national equivalent]
Body Protection:	<ul style="list-style-type: none"> Overalls Barrier cream
Other Protection:	<ul style="list-style-type: none"> Eyewash Unit

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan/light brown powder	Vapour Density [Air=1]:	n/a
Physical State:	Solid	Relative Density [Water=1]:	n/a
Odour:	Burnt Citrus sharp	Auto Ignition Temp [°C]:	n/a
Odour Threshold:	n/a	Decomposition Temp:	n/a
pH [1% Solution]:	5 – 7	Viscosity [cSt]:	n/a
Melting Point / Freezing Point:	300°C	Molecular Weight [g/mol]:	n/a
Initial Boiling Point / Range:	n/a	Taste:	n/a
Flash Point [°C]:	n/a	Explosive Properties:	n/a
Evaporation Rate:	n/a	Oxidising Properties:	n/a
Flammability:	n/a	Surface Tension [mN/m]:	n/a
Upper Explosive Limit [%]:	n/a	Volatile Component [%vol]:	n/a
Lower Explosive Limit [%]:	n/a	Gas Group:	n/a
Vapour Pressure [kPa]:	n/a	VOC g/l:	n/a
Solubility in water [g/l]:	Soluble		

Section 10: STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions of use, storage and temperature
Hazardous Reactions:	Hazardous Polymerisation will not occur
Conditions to avoid:	Moisture and heat
Incompatible Materials:	Strong oxidising agents, high pH acids
Hazardous Decomposition Products	carbon monoxide, carbon dioxide

Section 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS

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:

Ingestion:	May cause irritation of digestive tract		
Inhalation:	May cause irritation of respiratory tract		
Skin:	May cause irritation of skin		
Eye:	May cause eye irritation		
Chronic Effects:	Not known		
Acute Toxicity:	*	Carcinogenic:	*
Skin Irritation/ Corrosion:	*	Reproductive Effects:	*
Serious Eye Damage/Irritation:	*	Specific Target Organ – SE:	*
Respiratory / Skin Sensitiser:	*	Specific Target Organ – RE:	*
Mutagenic:	*	Aspiration Hazard:	*

Legend:	<ul style="list-style-type: none"> ⊕ Data not available to make classification ✓ Data Available to make classification * Data available but does not fill criteria for classification
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TOXICOLOGICAL DATA: No LD50 data available for the product. However, Exposure Standard(s) for constituent(s):

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Avoid contaminating waterways
Bioaccumulation	No data available
ECOLOGICAL DATA:	No LC50 data available for the product. However, Exposure Standard(s) for constituent(s):

Section 13: DISPOSAL INFORMATION

Disposal:	Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations. Empty containers must be either rendered totally unusable, or if to be recycled for use, decontaminated by rinsing thoroughly with water. Rinsing water needs to be disposed of carefully
	The following controls should be considered: <ul style="list-style-type: none"> ▪ Reduction ▪ Reuse ▪ Recycle ▪ Disposal
	Disposal of materials or packaging must be carried out in accordance with Hazardous Substances Regulations 2001

Section 14: TRANSPORT INFORMATION

LABELLING REQUIREMENTS

Label:	Not required
Marine Pollutant:	No
Hazchem:	Not regulated

LAND / AIR / SEA TRANSPORT	Not regulated for transport of Dangerous Goods [UN]
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Section 15: REGULATORY INFORMATION

REGULATIONS

HSR Number	Group Standard
Non-hazardous	Not available

LOCATION TEST CERTIFICATE

Hazard Class	Closed Container Controls	Open Container Controls
Not required	Not required	Not required

TRACKING REQUIREMENTS

Not applicable

Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown at the bottom right of page, and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.