# SAFETY DATA SHEET



Revision date: 04-Nov-2021

## Revision Number 2

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

Emergency Telephone	0 800 734 607 (ALL HOURS)
Emergency telephone number	
Contact Point	Product Safety Department
For further information, please cont	act
Telephone Number: +64 9 368 2700 Facimile: +64 9 368 2710	
Supplier Ixom Operations Pty Ltd (Incorporated NZBN: 9429041465226 Address: 166 Mt Maunganui South New Zealand	
Details of the supplier of the safety	data sheet_
Uses advised against	No information available.
Recommended use	General chemical.
Recommended use of the chemical	and restrictions on use
UN number	2837
Other means of identification	
Product Code(s)	00000054100
Product Name	DuoPro
Product identifier	

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

Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2020 Approval Number: HSR002491

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1

## Label elements



Hazard statements H314 - Causes severe skin burns and eye damage

## **Precautionary Statements - Prevention**

Do not breathe fume, gas, mist, vapours, spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves / protective clothing / eye protection / face protection **Precautionary Statements - Response** Specific treatment (see First aid on this SDS) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting **Precautionary Statements - Disposal** Diagone of experted/species with legal, regional, potienal, and interretional regulations on applicable.

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

#### <u>Mixture</u>

Chemical name	CAS No.	Weight-%
Citric acid	77-92-9	10-<30
Sodium bisulphate	7681-38-1	1-<10
Non hazardous component(s)	-	to 100

# 4. FIRST AID MEASURES

## Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26	
Inhalation	Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin	

	with water/shower. Immediately call a POISON CENTER or doctor/physician.		
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water Get immediate medical advice/attention.		
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes.		
Indication of any immediate medica	al attention and special treatment needed		
Note to physicians	Treat symptomatically. Can cause corneal burns.		
5. FIRE FIGHTING MEASU Suitable Extinguishing Media	RES		
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.		
Unsuitable extinguishing media	No information available.		
Specific hazards arising from the c	hemical		
Specific hazards arising from the chemical	Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Non-combustible.		
Special protective actions for fire-f	ighters_		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
Hazchem code	2R		
6. ACCIDENTAL RELEASE	EMEASURES		
Personal precautions, protective e	quipment and emergency procedures		
Personal precautions	Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Do not touch or walk through spilled material. 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	Local authorities should be advised if significant spillages cannot be contained.		
Methods and material for containm	ent and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
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		

# 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling	Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Use personal protection equipment. Wash thoroughly after handling.	
Conditions for safe storage, includin	ng any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use.	
Incompatible materials	Chlorite solutions, chlorine solutions, strong bases, some metals (aluminium, steel), brass.	

# 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 that eyewash stations and safety showers are close to the workstation location. 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, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Clear	
Color	Colourless	
Odor	Slight Characteristic	
Odor threshold	No information available.	
Property_	Values	Remarks • Method
рН	1.8-2.1 (1% solution)	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	Not applicable	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	Not applicable	
limits		
Lower flammability or explosive	Not applicable	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1.1-1.3	None known
Water solubility	Miscible in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	Not applicable	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

## Other information

# **10. STABILITY AND REACTIVITY**

Reactivity	
Reactivity	Reacts with strong bases.
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	None under normal processing.
Conditions to avoid	
Conditions to avoid	Incompatible materials.

## Incompatible materials

Incompatible materials Chlorite solutions, chlorine solutions, strong bases, some metals (aluminium, steel), brass.

## Hazardous decomposition products

Hazardous decomposition products Oxides of sulfur.

# **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	Causes serious eye damage.	
Skin contact	Contact causes severe skin irritation and possible burns.	
Ingestion	Can burn mouth, throat, and stomach.	
Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes.	

## Acute toxicity

Numerical measures of toxicity

No information available.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Citric acid	= 3000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Sodium bisulphate	= 2490 mg/kg (Rat)	-	-

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	Causes burns.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.

STOT - repeated exposureNo information available.Aspiration hazardNo information available.

# **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Ecotoxicity Keep out of waterways.

Terrestrial ecotoxicity There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Citric acid	-	LC50: =1516mg/L (96h, Lepomis	EC50: =120mg/L (72h, Daphnia
		macrochirus)	magna)
Sodium bisulphate	-	-	EC50: =190mg/L (48h, Daphnia
			magna)

Persistence and degradability			
Persistence and degradability	No information available.		
Bioaccumulative potential			
Bioaccumulation	No information available.		
<u>Mobility</u>			
Mobility in soil	No information available.		
Component Information			
Chemical na	me	Partition coefficient	
Citric acid		-1.72	
Other adverse effects			
Other adverse effects Other adverse effects	No information available.		
	No information available.		

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. Class 6 and 8 chemicals – may be discharged into the environment if a tolerable exposure limit has been set for the substance (or a component of that chemical); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the tolerable exposure limit. If there is not tolerable exposure limit for the substance, then it may only be discharged into the environment if the substance is very rapidly converted to substances that are not hazardous substances.
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**

ROAD AND RAIL TRANSPORT	Classified as a Dangerous Good according to NZS 5433 Transport of Dangerous Goods on Land; DANGEROUS GOODS.
UN number	2837
Proper shipping name	BISULPHATES, AQUEOUS SOLUTION
Hazard class	8
Packing group	III
Hazchem code	2R
IATA	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.
UN number	2837
UN proper shipping name	BISULPHATES, AQUEOUS SOLUTION
Transport hazard class(es)	8
Packing group	III
IMDG	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.
UN number	2837
UN proper shipping name	BISULPHATES, AQUEOUS SOLUTION
Transport hazard class(es)	8
Packing group	III
IMDG EMS Fire	F-A
IMDG EMS Spill	S-B

# 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 NZIoC TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AIIC	All the constituents of this material are listed on the New Zealand Inventory of Chemicals. Contact supplier for inventory compliance status. 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/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

- 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. O <sup>-</sup>	THER INFORMATION										
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Prepared By	SDS Services).
Issuing Date:	04-Nov-2021
Reason(s) For Issue:	Change to Product Name

#### **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	
Ceiling	Maximum limit value	*	
С	Carcinogen		

STEL (Short Term Exposure Limit) Skin designation

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

# End of Safety Data Sheet