
SAFETY DATA SHEET

Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

Product Name:	VYTRATE SCOUR TREATMENT
Product Identifier:	A water soluble electrolyte replacer for scouring animals.
Product Code:	504285 (Duo sachets, 12s).
Recommended Use:	A non-antibiotic supportive treatment for scouring or dehydrated calves, pigs, dogs, cats, lambs and foals. A suitable first feed for brought-in calves or stressed calves and pigs.
Restrictions on Use:	For animal treatment only.
Company Identification:	Jurox Pty Limited.
Address:	85 Gardiner Street, Rutherford, NSW 2320, Australia.
Email:	customerservice@jurox.com.au
Customer Centre:	1800 023 312
National Poisons Information Centre:	13 1126 (24 hours)
Emergency Telephone Number:	1800 023 312 (9am – 5pm, Monday to Friday)

Section 2: HAZARDS IDENTIFICATION

Hazard Classifications:	This product has been assessed according to GHS and is classified as non-hazardous.
Signal word:	None
GHS Pictograms:	None
Precautionary statements:	None
Other hazards:	None known.

Section 3: COMPOSITION / INFORMATION on INGREDIENTS**Duo sachets:**

INGREDIENT	CAS No.	CONTENT
Section A		
Sodium chloride	7647-14-5	44%
Glycine	56-40-6	32%
Potassium phosphate monobasic	7778-77-0	21%
Citric acid monohydrate	77-92-9	2%
Potassium citrate	6100-05-6	1%
Section B		
Glucose monohydrate	5996-10-1	100%

When one Duo Sachet is reconstituted in 2 L of water:

INGREDIENT	CAS No.	CONTENT
Glucose monohydrate	5996-10-1	2.2%
Sodium chloride	7647-14-5	< 1%
Glycine	56-40-6	< 1%
Potassium phosphate monobasic	7778-77-0	< 1%
Citric acid monohydrate	77-92-9	< 0.1%
Potassium citrate	6100-05-6	< 0.1%

Section 4: FIRST AID MEASURES

General Information: Consult the National Poisons Centre on 13 1126 or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have this SDS, product container or label at hand.

Inhalation: If fumes or combustion products are inhaled remove from contaminated area. First aid is not generally required. If in doubt, contact a Poisons Information Centre or doctor.

Ingestion: If swallowed do NOT induce vomiting. Immediately give a glass of water and rinse out mouth. Then provide liquid slowly and as much as the casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. First aid is not generally required. If in doubt, contact a Poisons Information Centre or doctor.

Skin: If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Eye: If eye contact occurs: Wash out immediately with water. Continue rinsing for at least 20 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If eye irritation occurs, get medical advice/attention. Removal of contact lenses should only be undertaken by skilled personnel.

Recommended First Aid Facilities: Ready access to running water and soap is required. Accessible eyewash is required.

Advice to Doctor: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flash Point: Not flammable. Not combustible.

Hazardous Combustion Products: If involved in a fire, may emit toxic and poisonous fumes.

Extinguishing Media: There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

Protective Equipment: Breathing apparatus and protective gloves.

HAZCHEM Code: None specified.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear gloves and appropriate protective clothing. For small spills, clean up spilled product immediately then wipe area and put empty container in garbage. Avoid generating dust. For large spills, exclude non-essential people from the area. Prevent spillage from entering drains or water courses and call emergency services.

Protective Clothing: For appropriate personal protective equipment see section 8.

Environmental Precautions: Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling: Avoid all personal contact, including inhalation. Use in a well-ventilated area and use personal protective equipment as required. Do not eat, drink or smoke while handling product.

Storage: Keep out of reach of children. Store in securely sealed, original containers, below 25°C (air conditioning) in a dry place. Store away from incompatible materials and foodstuffs.

Other Information: Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.

Exposure Limits: An exposure limit for the mixture has not been established. No exposure standards for the ingredients are available. Temporary Emergency Exposure Limits (TEELs) for the ingredients are as follows:

INGREDIENT	TEEL-1	TEEL-2	TEEL-3
Glucose monohydrate	No data	No data	No data
Sodium chloride	0.5 ppm	2 ppm	20 ppm
Glycine	33 mg/m ³	360 mg/m ³	1,600 mg/m ³
Potassium phosphate monobasic	9.6 mg/m ³	110 mg/m ³	630 mg/m ³
Citric acid monohydrate	30 mg/m ³	330 mg/m ³	2,000 mg/m ³
Potassium citrate	2.1 mg/m ³	23 mg/m ³	140 mg/m ³

Engineering Controls: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Personal Protective Equipment (PPE):

Eye protection: Protective glasses or goggles are recommended when handling bulk quantities this product.

Skin protection: When handling bulk quantities, prevent skin contact by wearing chemical protective gloves e.g. PVC.

Respiratory protection: Not required for the normal use of this product.

Other: No special equipment is needed when handling small quantities. OTHERWISE overalls, PVC apron, barrier cream, skin cleansing cream and eyewash unit.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White, odourless, granular powder.	Lower flammability limits:	Not applicable
Odour:	Not available	Vapour Pressure:	Not available
Odour threshold:	Not available	Vapour density:	Not available
pH:	Not applicable	Relative density:	Not available
Melting Point:	Not available	Specific Gravity:	Not available
Boiling Point:	Not available	Solubility in Water:	Miscible
Flash Point:	Not applicable	Partition coefficient:	Not available
Evaporation Rate:	Not available	Auto-ignition temperature:	Not applicable
Flammability:	Not applicable	Decomposition temperature:	Not available
Upper flammability limits:	Not applicable	Viscosity:	Not available

Section 10: STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or polymerise under normal storage conditions.

Stability: When stored appropriately this product should show no significant degradation within the expiry period shown on the label.

Conditions to Avoid: Environmental extremes.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products: No data available.

Section 11: TOXICOLOGICAL INFORMATION**Acute Toxicity:**

Ingestion: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the oral route.

Glucose : Oral LD₅₀ : 25,800 mg/kg (rat)
Sodium chloride : Oral LD₅₀ : 3,000 mg/kg (rat)
Glycine : Oral LD₅₀ : 7,930 mg/kg (rat)
Potassium phosphate monobasic : Oral LD₅₀ : >500 mg/kg (rat)
Citric acid : Oral LD₅₀ : 3,000 mg/kg (rat)
Potassium citrate : No data.

Inhalation: This product is not thought to produce adverse health effects or irritation of the respiratory tract. Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Based on the available data for the ingredients, the mixture is not considered to be acutely toxic by the inhalation route.

Dermal: This product is not thought to produce adverse health effects or skin irritation following contact. Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the product and ensure that any external damage is suitably protected. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the dermal route.

Skin Corrosion / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to cause skin corrosion / irritation. Sodium chloride and citric acid are mild skin irritants.

Serious Eye Damage / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to cause eye damage / irritation. Direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness.

Respiratory or Skin Sensitisation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a skin sensitiser or respiratory sensitiser.

Germ Cell Mutagenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be mutagenic.

Carcinogenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic.

Reproductive Toxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a reproductive toxicant.

STOT: Single exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is not classified as a specific target organ toxicant after single exposure.

STOT: Repeat exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is not classified as a specific target organ toxicant after repeat exposure. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis. Substance accumulation in the human body may occur and may cause some concern following repeated or long-term occupational exposure.

Aspiration Hazard: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an aspiration hazard.

Narcotic Effects: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to have any narcotic effects.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be ecotoxic.

Fish

Glucose monohydrate : No data
 Sodium chloride : LC₅₀ (96h) : 1000 mg/L, NOEC (6h) : 0.001 mg/L
 Glycine : No data
 Potassium phosphate monobasic : No data
 Citric acid : No data
 Potassium citrate : No data

Crustacea

Glucose monohydrate : No data
 Sodium chloride : EC₅₀ (48h) : 402.6 mg/L
 Glycine : No data
 Potassium phosphate monobasic : No data
 Citric acid : NOEC (16h) : 153 mg/L
 Potassium citrate : No data

Algae and other aquatic plants

Glucose monohydrate : No data
 Sodium chloride : EC₅₀ (96h) : 2430 mg/L
 Glycine : No data
 Potassium phosphate monobasic : No data
 Citric acid : No data
 Potassium citrate : No data

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Glucose monohydrate	LOW	LOW	LOW LogKOW = -3.24	LOW KOC = 10
Sodium chloride	LOW	LOW	LOW LogKOW = 0.54	LOW KOC = 14.3
Glycine	LOW	LOW	LOW LogKOW = -3.21	HIGH KOC = 1
Potassium phosphate monobasic	No data available	No data available	No data available	No data available
Citric acid	LOW	LOW	LOW LogKOW = -1.64	LOW KOC = 10
Potassium citrate	No data available	No data available	No data available	No data available

Section 13: DISPOSAL INFORMATION

Product Disposal: Dispose of product only by using according to label or at an approved landfill.

Container Disposal: Dispose of empty container by wrapping with paper and putting in garbage.

Section 14: TRANSPORT INFORMATION

Dangerous Goods Classification: Not considered a Dangerous Good for land, sea and air transport.

Section 15: REGULATORY INFORMATION

Poison Schedule (SUSMP): None

APVMA No.: 35892

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16: OTHER INFORMATION

This information is based on data believed by Jurox Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Jurox Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein does so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Legend:

AICS	Australian Inventory of Chemical Substances.
CAS No.	Chemical Abstracts Service Registry Number.
CCID	Chemical Classification and Information Database
EC₅₀	The median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction in 50% of organisms or a 50% reduction in growth or in the growth rate of organisms.
EPA	Environmental Protection Authority Te Mana Rauhi Taiao
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
HSDB	Hazardous Substances Data Bank
KOC	Soil-Water Partition Coefficient. The ratio of a chemical's concentration that is adsorbed in the soil to the concentration of chemical in solution.
KOW	Octanol Water Partition Coefficient. The ratio of a compound's concentration in a known volume of n-octanol to its concentration in a known volume of water after the octanol and water have reached equilibrium.
LC₅₀	The median lethal concentration, being a statistically derived concentration of a substance that can be expected to cause death in 50% of animals.
LD₅₀	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
NICNAS	National Industrial Chemicals Notification and Assessment Scheme.
NOEC	No-observable-effect-concentration.
PPE	Personal Protective Equipment.
PVC	Polyvinyl Chloride.
SDS	Safety Data Sheet.
STOT	Specific Target Organ Toxicity.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.
SWA	Safe Work Australia.
TEELs	Temporary Emergency Exposure Limits. Guidelines designed to predict the response of members of the general public to different concentrations of a chemical during an emergency response incident.
TEEL-1	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic, nonsensory effects. However, these effects are not disabling and are transient and reversible upon cessation of exposure.
TEEL-2	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting, adverse health effects or an impaired ability to escape.
TEEL-3	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening adverse health effects or death.

References:

ChemID Plus

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)

This version issued: 02 October 2018 and is valid for 5 years from this date.

Supersedes: This SDS supersedes the version issued on 28 January 2016.

Revision History:

Date of Revision	Reason
28 January 2016	Reclassification of substance to GHS classification and update of SDS to comply with SWA Code of Practice.
02 October 2018	Updated sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and Legend.

END OF SDS