

## THE FOLLOWING IS AN EXTRACT OF INFORMATION PROVIDED BY WORKZONE

#### **CORRECT AS OF 14 AUGUST 2020**

Contact Information	Workzone
	V V OI IX Z OI IC

Unit 2, 47 Prince William Drive SEVEN HILLS NSW 2147

**T**: 1800 010 345 **W**: www.wz.net.au

#### General Pricing Information

#### **COVID-19 Deep Cleaning Rates**

- During business hours \$90.00/hour per person for a team with a minimum of three people and a four hour minimum charge would apply.
- After hours \$120.00 per hour per person for a team with a minimum of three people and a four hour minimum.
- Service outside of the 75km CBD radius would also incur travel time @ 0.95c per km per team member.

## Notice of Engagement Conditions

· See above.

#### Other information provided

- Certificate of completion sample (see following)
- Further commercial background information (see following)

ABN 60 277 501 947

- PO Box 660, Parramatta NSW 2124
- nsw@childcarealliance.org.au
- 1300 556 330 1300 557 228
- www.nsw.childcarealliance.org.au
- @ChildCareNSW
- f /ChildCareNSW
- /child-care-new-south-wales

### SAFETY DATA SHEET



#### **Section 1. Identification**

Product identifier : Virkon(TM) S

Material Number : 57818065

EPA Registration Number: : 39967-137

Identified uses : Disinfectant, Cleaning agents

Supplier/Manufacturer : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive Pittsburgh, PA 15275-1112

For Information: US/Canada (800) LANXESS) International: +1 412 809 1000

: CHEMTREC (800) 424 9300 International (703) 527 3887

Lanxess Emergency Phone: (866) 673 6350

#### Section 2. Hazards identification

**HAZCOM Standard Status**: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Physical state : Powder.
Color : Yellow

Classification of the SKIN IRRITATION - Category 2 Substance or mixture SERIOUS EYE DAMAGE - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

: Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

irritation) - Category 3

Hazard pictograms :

In case of emergency





Signal word : Danger

Hazard statements
Hazard Not Otherwise
Classified (HNOC)

: None known.

**Precautionary statements** 

**Prevention**: Wear protective gloves and eye/face protection. Use only in a well-ventilated area.

Avoid breathing dust. Wash hands thoroughly after handling.

Response : Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Supplemental label** : Store in original container protected from direct sunlight in a dry, cool and well-ventilated elements area, away from incompatible materials and food and drink.

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#### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	25 - 50	70693-62-8
Sodium Dodecylbenzene Sulfonate	10 - ≤25	25155-30-0
Butanedioic acid, 2-hydroxy-	≤10	6915-15-7
sulphamic acid	≤5	5329-14-6
Potassium hydrogen sulphate	≤5	7646-93-7
Sodium chloride	≤5	7647-14-5
dipotassium peroxodisulphate	≤5	7727-21-1
Dipotassium disulphate	≤5	7790-62-7
dipentene	<1	138-86-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### **Description of first aid measures**

Eye contact : (

: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. In case of contact with eyes, flush eyes with plenty of water for at least 30 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained professional, using a pocket type respirator.

Skin contact

: In case of contact, flush skin with plenty of water for at least 30 minutes. Get medical attention immediately. Immediately remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Potential acute health effects

**Eye contact**: Causes serious eye damage. May cause mechanical irritation (abrasion).

**Inhalation** : May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

**Ingestion** : May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

#### Section 4. First aid measures

Eye contact : Corrosive with symptoms of reddening, tearing, swelling, burning and possible

permanent damage.

Inhalation : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny

nose.

**Skin contact**: Corrosive with symptoms of reddening, itching, swelling, burning and possible

permanent damage.

Causes irritation with symptoms of reddening, itching, and swelling.

**Ingestion** : Corrosive with symptoms of coughing, burning, ulceration, and pain.

#### Potential chronic health effects

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Notes to physician Protection of first-aiders : Treat symptomatically. No specific treatment.

: If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly

with water before removing it, or wear gloves.

See toxicological information (Section 11)

#### Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water

spray (fog), foam or dry chemical.

: Carbon dioxide (CO<sub>2</sub>).

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Water runoff from fire fighting may be corrosive.

: Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Section 6. Accidental release measures

Methods and materials for containment and cleaning up

: Move containers from spill area. Approach release from upwind. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

#### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Section 8. Exposure controls/personal protection

#### Occupational exposure limits

Ingredient name	Exposure limits
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	None
Sodium Dodecylbenzene Sulfonate	None
Butanedioic acid, 2-hydroxy-	None
sulphamic acid	None
Potassium hydrogen sulphate	None
Sodium chloride	None
dipotassium peroxodisulphate	ACGIH TLV (United States, 3/2016).
	TWA: 0.1 mg/m³, (as persulfate) 8 hours.
Dipotassium disulphate	None
dipentene	None

## Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## Personal protection Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Section 8. Exposure controls/personal protection

Respiratory protection : Although no exposure limit has been established for this product, the OSHA PEL for

Particulates Not Otherwise Regulated (PNOR) of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m3 - respirable particles and 10 mg/m3 - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS). The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline. NIOSH approved,

air-purifying particulate respirator with N-95 filters.

**Skin protection**: Wear suitable protective clothing and gloves. Suitable protective footwear.

: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. If contact with product is possible, wear safety

glasses with side shields.

Medical Surveillance : Not available.

#### Section 9. Physical and chemical properties

Physical state : Solid. [Powder.]

Color : Yellow

Odor : Pleasant. Sweet.
Odor threshold : Not available.

**pH** : 2.2 to 2.7 [Conc. (% w/w): 1%]

Boiling point: Not available.Melting point: Not available.Flash point: Not available.Evaporation rate: Not available.Explosion limits: Not available.Vapor pressure: Not available.

Specific gravity (Relative

Eye/face protection

density)

Solubility in water : 65 g/l

Partition coefficient: n-

octanol/water

: Not available.

: 1.07

Vapor density : Not available.
Viscosity : Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.

#### Section 10. Stability and reactivity

Reactivity

**Chemical stability** 

Possibility of hazardous

reactions

Conditions to avoid

Incompatible materials

: No specific test data related to reactivity available for this product or its ingredients.

: The product is stable.

: Under normal conditions of storage and use, hazardous reactions will not occur.

: Protect from moisture.

: Strong bases, Combustible material., Acids, Oxidizers, brass, Copper, halogenated

compounds, cyanides, heavy metal compounds

Hazardous decomposition products

osition : Sulfur dioxide, Chlorine

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#### **Section 11. Toxicological information**

Information on the likely

: Dermal contact. Eye contact. Inhalation. Ingestion.

routes of exposure

Potential acute health effects

**Eye contact** : Causes serious eye damage. May cause mechanical irritation (abrasion).

**Inhalation** : May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

Ingestion : May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Corrosive with symptoms of reddening, tearing, swelling, burning and possible

permanent damage.

Inhalation : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny

nose.

**Skin contact**: Corrosive with symptoms of reddening, itching, swelling, burning and possible

permanent damage.

Causes irritation with symptoms of reddening, itching, and swelling.

Corrosive with symptoms of coughing, burning, ulceration, and pain.

Potential chronic health effects

**Short term exposure** 

Potential immediate : Not available.

effects

Ingestion

Long term exposure

Potential delayed effects : Not available.

**General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure	Test
Virkon(TM) S	LD50 Oral	Rat - Male, Female	4123 mg/kg	-	OECD 401 Acute Oral Toxicity
Virkon(TM) S	LD50 Dermal	Rat - Male, Female	2200 mg/kg Extrapolation according to Regulation (EC) No. 440/2008	-	-
Virkon(TM) S	LC50 Inhalation Dusts and mists	Rat - Male, Female	3.7 mg/l the particle size measurements of the product indicate that it is not respirable and therefore not bioavailable by the inhalation route.	4 hours	-

**Irritation/Corrosion** 

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
sulphamic acid	Eyes - Cornea opacity	Rabbit	2	-	4 hours	Fully reversible
	Eyes - Redness of the conjunctivae	Rabbit	1.5	-	7 days	Fully reversible
	Eyes - Edema of the conjunctivae	Rabbit	1.5	-	7 days	Fully reversible in more than 7 days

#### **Conclusion/Summary**

Skin : Irritating to skin. Moderate irritant

Eyes : Risk of serious damage to eyes.

#### **Sensitization**

3	Route of exposure	Species	Result
Virkon(TM) S		Guinea pig Mammal - species unspecified	Not sensitizing Not sensitizing

Skin : Not sensitizing
Respiratory : Not sensitizing

#### **Chronic toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Pentapotassium bis (peroxymonosulphate) bis (sulphate)	Sub-acute NOEL Oral	Rat - Male, Female	>1000 mg/kg bw/ day	28 days
	Sub-chronic LOAEL Oral	Rat - Male, Female	600 mg/kg bw/ day	90 days; 7 days per week daily
Sodium Dodecylbenzene Sulfonate	Chronic NOAEL Oral	Rat	220 mg/kg	-

**Conclusion/Summary**: Butanedioic acid, 2-hydroxy-:No known significant effects or critical hazards.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Pentapotassium bis	OECD 476 In vitro	Experiment: In vitro	Positive
(peroxymonosulphate) bis	Mammalian Cell Gene	Subject: Mammalian-Animal	
(sulphate)	Mutation Test	Cell: Somatic	
	0505 450 / "	Metabolic activation: +/-	
	OECD 473 In vitro	Experiment: In vitro	Positive
	Mammalian	Subject: Mammalian-Human	
	Chromosomal Aberration Test	Cell: Somatic Metabolic activation: +/-	
	OECD 471 Bacterial	Experiment: In vitro	Negative
	Reverse Mutation Test	Subject: Bacteria	Negative
	Treverse indiation rest	Metabolic activation: +/-	
	OECD 474 Mammalian	Experiment: In vivo	Negative
	Erythrocyte	Subject: Mammalian-Animal	
	Micronucleus Test		
sulphamic acid	OECD 471 Bacterial	Experiment: In vitro	Negative
	Reverse Mutation Test	Subject: Bacteria	
		Metabolic activation: With and	
	OFOD 474 Deaths: 1	Without	No see Cons
	OECD 471 Bacterial	Experiment: In vitro	Negative
	Reverse Mutation Test	Subject: Bacteria	
		Metabolic activation: With and	

## Section 11. Toxicological information

	Without	
OECD 476 In vitro	Experiment: In vitro	Negative
Mammalian Cell Gene	Subject: Mammalian-Animal	344
Mutation Test	Metabolic activation: With and	
	Without	
OECD 476 In vitro	Experiment: In vitro	Negative
Mammalian Cell Gene	Subject: Mammalian-Animal	
Mutation Test	Metabolic activation: With and	
	Without	
OECD 487 In vitro	Experiment: In vitro	Negative
Micronucleus Test	Subject: Mammalian-Human	
	Metabolic activation: with and without	

#### **Conclusion/Summary**

: dipotassium peroxodisulphate:Not mutagenic in a standard battery of genetic toxicological tests.

#### **Carcinogenicity**

Product/ingredient name	CAS#	IARC	NTP	OSHA
Pentapotassium bis (peroxymonosulphate) bis(sulphate)	70693-62-8	Not classified.	Not classified.	Not classified.
Sodium Dodecylbenzene Sulfonate	25155-30-0	Not classified.	Not classified.	None
Butanedioic acid, 2-hydroxy-	6915-15-7	Not classified.	Not classified.	Not classified.
sulphamic acid	5329-14-6	Not classified.	Not classified.	Not classified.
Potassium hydrogen sulphate	7646-93-7	Not classified.	Not classified.	Not classified.
Sodium chloride	7647-14-5	Not classified.	Not classified.	Not classified.
dipotassium peroxodisulphate	7727-21-1	Not classified.	Not classified.	Not classified.
Dipotassium disulphate	7790-62-7	Not classified.	Not classified.	Not classified.
dipentene	138-86-3	Not classified.	Not classified.	Not classified.

#### **Reproductive toxicity**

**Conclusion/Summary**: Butanedioic acid, 2-hydroxy-:No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	Category 3	Not applicable.	Respiratory tract irritation
Butanedioic acid, 2-hydroxy-	Category 3	Not applicable.	Respiratory tract irritation
sulphamic acid	Category 3	Not applicable.	Respiratory tract irritation
Potassium hydrogen sulphate	Category 3	Not applicable.	Respiratory tract irritation
Sodium chloride	Category 3	Not applicable.	Respiratory tract irritation
dipotassium peroxodisulphate	Category 3	Not applicable.	Respiratory tract irritation

#### **Acute toxicity estimates**

Route	ATE value (Acute Toxicity Estimates)
Not available.	

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Test	Result	Species	Exposure
Pentapotassium bis (peroxymonosulphate) bis (sulphate)	OECD 201 Alga, Growth Inhibition Test	Acute EC50 >1 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
<b>,</b>	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 3.5 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 53 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	OECD 201 Alga, Growth Inhibition Test	Chronic NOEC 0.5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
Sodium Dodecylbenzene Sulfonate	-	Chronic NOEC 4 mg/l	Daphnia - Daphnia magna	7 days
	-	Chronic NOEC 3.1 mg/l	Fish - Oncorhynchus kisutch	3 days
Butanedioic acid, 2-hydroxy-	OECD 201 Alga, Growth Inhibition Test		Algae - Daphnia magna	72 hours
	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 240 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 >100 mg/l Fresh water	Fish - Danio rerio	96 hours
and a la anais a said	OECD 201 Alga, Growth Inhibition Test		Algae - Daphnia magna	72 hours
sulphamic acid	OECD 201 Alga, Growth Inhibition Test	Acute EC50 48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 71.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC50 >200 mg/l Fresh water	Micro-organism	3 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 70.3 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	OECD 201 Alga, Growth Inhibition Test	Chronic EC10 29.5 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	OECD 201 Alga, Growth Inhibition Test	Chronic NOEC 18 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
Sodium chloride	-	Acute EC50 402.6 mg/l Acute LC50 7400 mg/l	Daphnia Fish	48 hours 96 hours
dipotassium peroxodisulphate	OECD 201 Alga, Growth Inhibition Test	Acute EC50 83.7 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	-	Acute EC50 120 mg/l	Daphnia - Daphnia magna	48 hours
	-	Acute LC50 76.3 mg/l	Fish - Oncorhynchus mykiss	96 hours
Dipotassium disulphate	-	Acute EC10 656 mg/l Read- across from CAS # 7778-80-5 Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours

#### Section 12. Ecological information Acute EC50 1492 mg/l Read-Algae -96 hours across from CAS # 7778-80-5 Pseudokirchneriella Fresh water subcapitata Acute EC50 720 mg/l Read-Daphnia - Daphnia 48 hours across from CAS # 7778-80-5 magna Fresh water Acute LC50 680 mg/l Read-Fish - Pimephales 96 hours across from CAS # 7778-80-5 promelas Fresh water Chronic NOEC 790 mg/l Read-Daphnia - Daphnia 7 days across from CAS # 7757-82-6 dubia (water flea) Fresh water Chronic NOEC >595 mg/l Read-Fish - Pimephales 7 days across from CAS # 7757-82-6 promelas Fresh water dipentene Acute EC50 0.421 mg/l Fresh Daphnia - Daphnia 48 hours water magna Fish - Pimephales Acute LC50 0.702 mg/l Fresh 96 hours promelas water

**Conclusion/Summary** 

: Not available.

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Butanedioic acid, 2-hydroxy-	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	67.5 % - Readily - 28 days	-	-

#### Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Butanedioic acid, 2-hydroxy- Sodium chloride	-	-	Readily Readily
dipentene	-	-	Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Pentapotassium bis (peroxymonosulphate) bis (sulphate)	<0.3	-	low
Sodium Dodecylbenzene Sulfonate	0.45	220	low
Butanedioic acid, 2-hydroxy-	-1.26	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

#### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

#### Section 13. Disposal considerations

**RCRA** classification

: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

#### **Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN3077	Environmentally hazardous substance, solid, n.o.s. (SODIUM DODECYLBENZENE SULFONATE)	9	==		8, 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33 When in individual containers of less than the Product RQ, this material ships as non-regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

PG\*: Packing group

**RQ** : 7310 lbs

#### Section 15. Regulatory information

SARA 311/312 : Immediate (acute) health hazard

SARA Title III Section 302

**Extremely Hazardous** 

**Substances** 

SARA Title III Section 313

**Toxic Chemicals** 

: None

: None

**Ingredient name** 

US EPA CERCLA Hazardous Subtances (40 CFR 302.4) : Sodium Metaphosphate

didiff Metaphosphate 10124-56-

Sodium Dodecylbenzene Sulfonate

10124-56-8 5000 lbs. (2270

**CAS** number

25155-30-0

kg)

<u>RQ</u>

1000 lbs. (454 kg)

#### **State regulations**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

oriodia corridor ino appropranto agono, i	your otato.		
Ingredient name	CAS number	State Code	<b>Concentration</b>
			<u>(%)</u>
Sodium Metaphosphate	10124-56-8	MA - S, PA - RTK HS	10 - ≤25
Sodium Dodecylbenzene Sulfonate	25155-30-0	MA - S, NJ - HS, PA - RTK HS	10 - ≤25
dipotassium peroxodisulphate	7727-21-1	MA - S, NJ - HS, PA - RTK HS	≤5
sulphamic acid	5329-14-6	NJ - HS	≤5
Potassium hydrogen sulphate	7646-93-7	NJ - HS	≤5
Pentapotassium bis	70693-62-8		25 - 50
(peroxymonosulphate) bis(sulphate)			
Butanedioic acid, 2-hydroxy-	6915-15-7		≤10

#### **Section 15. Regulatory information**

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

123-35-3

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS
Pennsylvania Special Hazardous Substances: PA - Special HS

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

≤0.1

7-methyl-3-methyleneocta-1,

6-diene

U.S. Toxic Substances

**Control Act** 

: This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when

Yes

used as a pesticide.

**FIFRA** 

**EPA Registration Number** : 39967-137

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

#### Signal word

: DANGER

**Hazard statements** 

: Danger. Powder is corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through skin. Corrosive statement does not refer to 1% in-use solution.

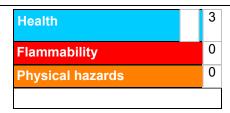
FIFRA Registered Composition:

Active Ingredients:

Potassium peroxymonosulfate (CAS# 10058-23-8) 21.41% Sodium chloride (CAS# 7647-14-5) 1.5% Other Ingredients 77.09% Total: 100%

#### Section 16. Other information

Hazardous Material Information System



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme \*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

#### Section 16. Other information

Our method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided as a customer service.

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**Date of issue** : 08-14-2017

Date of previous issue : No previous validation

Version : 1

**Product Safety and Regulatory Affairs** 

Indicates information that has changed from previously issued version.

#### **Notice to reader**

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of LANXESS Corporation. The information in this SDS relates only to the specific material designated herein. LANXESS Corporation assumes no legal responsibility for use of or reliance upon the information in this SDS.

#### **Example CHECKLIST (Page 1)**

Mark box with:

√ / x/ NA

#### Personal Protective Equipment

1.	Hand Hygiene (HH) is available  Handwashing facilities or hand sanitiser	
2.	Gloves  - (May be reusable or disposable)—must perform HH before putting on and taking off	
3.	Disposable face mask  – Before removing perform HH. Do not touch the front. Use the ties or ear loops to remove.	
4.	Protective eyewear or Face shield (May be reusable or disposable)  Prescription glasses are not protective	
5.	Plastic apron or full-length disposable gown. Coveralls may be used if trained in donning and doffing.  — This is precautionary to protect clothing from the chemicals used.	

12. Large supply of plastic waste bagsCheck with site manager where these will go.

This is precautionary to protect clothing from the chemicals used.	L
Cleaning equipment	
Large supply of disposable cleaning cloths     Reusable cloths may be used if the site has a process for laundering them.     This maybe a site-based washing machine & dryer or a pre-existing contract with a commercial laundry.	
7. Mop & bucket  - Reusable mop heads may be used if the site or the cleaning contractor has a process for laundering them.  - Disposable mop heads should be discarded in general waste.	
8. Extension pole for high level cleaning	
9. 2 Step clean Step 1: Neutral detergent Step 2: Bleach Solution or TGA approved disinfectant with virucidal activity  - Read the product label to see if it is effective against viruses  - Follow the directions for preparation  - Strictly follow dilution requirements  - Read the label for contact time  - Wipe off residual disinfectant after contact time completed.	
<ul> <li>10. 2-in-1 clean</li> <li>Use a TGA approved 2-in-1 detergent/disinfectant product</li> <li>Read the product label to see if it is effective against viruses</li> <li>Follow the directions for preparation</li> <li>Read the label for contact time</li> </ul>	
Steam cleaner (basic requirement release steam at a minimum of 70°C under pressure)     For soft furnishings or fabric items that cannot be washed in a washing machine or withstand bleach	

#### **Example CHECKLIST (Page2)**

#### Area preparation

- 13. Define the area to be cleaned.
  - This will be determined in discussion with the DHHS outbreak team and the senior manager of the workplace.
  - They will include areas within the workplace used/visited by the COVID-19 positive case such as offices, bathrooms and common areas.
- 14. Close off area to be cleaned
  - Use signage to prevent accidental entry by others
  - If possible, open outside doors and windows to increase air circulation just prior to cleaning and disinfection.
- 15. Remove clutter and discard disposable items/waste into general waste bags, seal and dispose
- 16. Quarantine items that need to be kept.
  - Place items in a clear plastic bag and store for 72 hours (e.g. paper documents).
- 17. Items that require laundering.
  - Do not shake laundry
  - Arrange for these to be sent to commercial laundry or washed in an on-site washing machine (if available). In workplaces where there are children i.e. schools or childcare centres, this may include dress up clothing.
- 18. Remove crockery and cutlery
  - Place in an on-site dishwasher (if available) or wash in warm soapy water.
- 19. Identify soft furnishings which need to be cleaned with the steam cleaner

#### **Cleaning and Disinfection**

- 20. Using detergent and water, clean the furniture from cleanest to dirtiest (e.g. toilets are cleaned last) and high to low.
  - Walls and ceilings may not need to be cleaned unless there is evidence of gross contamination
    of respiratory secretions. Walls may only need to be cleaned to touch height and frequently
    touched areas. This should be discussed with the DHHS outbreak team.
- 21. Using TGA listed/bleach disinfectant solution, clean the furniture from high to low (as above)
- 22. Allow for contact time of disinfectant (refer to product information)
- 23. Wipe off residual disinfectant.
- 24. Steam clean soft furnishings

#### After

- 25. Clean all re-usable cleaning equipment with disinfectant solution
  - Wipe down mop handles, buckets and steam cleaner
- 26. Bag cleaning items that need to be laundered in a plastic bag and arrange to be laundered
- 27. Remove all waste into general waste
- 28. Site inspection with facility manager and DHHS outbreak team representative

#### **Appendix 1**

The most readily available disinfectants are chlorine-based products (household bleach). To achieve the correct dilution, follow the manufacturer's instructions or use the chlorine dilutions calculator (see Table 1) to achieve a 1000ppm dilution. Once diluted, bleach solutions lose potency over time and on exposure to sunlight and so must be made up prior to use.

#### Chlorine dilutions calculator

Household bleach comes in a variety of strengths. The concentration of the active ingredient — hypochlorous acid — can be found on the product label.

Table 1. Recipes to achieve a 1000 ppm (0.1%) bleach solution

Original strength of bleach		Disinfectant recipe		Volume in standard 10L bucket
%	Parts per million	Parts of bleach	Parts of water	
1	10,000	1	9	1000 mL
2	20,000	1	19	500 mL
3	30,000	1	29	333 mL
4	40,000	1	39	250 mL
5	50,000	1	49	200 mL

For other concentrations of chlorine-based sanitisers not listed in the table above, a dilutions calculator can be found on the department's website.

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# Environmental cleaning of facilities after Coronavirus diagnosis

The World Health Organisation (WHO) has declared the Coronavirus (COVID-19) outbreak a global pandemic.

Workzone Pty Ltd is implementing a cleaning program in accordance with processes provided by NSW Health.

Workzone are qualified cleaning contractors that can undertake environmental cleaning of closed DFES sites and possibly other government facilities.

#### Specific requirements for cleaners in the response to the Coronavirus.

The risk when cleaning is not the same as the risk when face to face with a sick person who may be coughing or sneezing.

- Cleaning staff should be informed to avoid touching their face, especially their mouth, nose, and eyes when cleaning.
- Cleaning staff should wear impermeable disposable gloves and a surgical mask plus eye protection or a face shield while cleaning.
- Cleaners should use alcohol-based hand rub before putting on and after removing gloves.
- Alcohol-based hand rub should also be used before and after removing the surgical mask and eye protection.

The surgical mask and eye protection act as barriers to people inadvertently touching their face with contaminated hands and fingers, whether gloved or not.

Cleaning staff do not need to self-isolate for any period of time after conducting the cleaning.

#### Commercial Cleanser Requirements

• Appropriate commercial cleanser – 2-in-1 detergent/disinfectant, noting that detergent alone in this circumstance is not enough.

#### Cleaner Requirements

- Manually clean relevant hard surfaces with sufficient rigour
- All hard surfaces to be cleaned, including provisions for cleaning seats, desks, regularly used furniture and equipment
- Cleaning of carpets as necessary



- Client representative will specify the extent of clean e.g. handrails, equipment, rooms likely to have been used, common areas used are areas of concern. An easy way to think of this is to consider areas frequently touched by a by staff (eg locker, desk, chairs, communal kitchen, storeroom for equipment) as they move through the environment to ensure that, as well as regular cleaning, any emergency cleaning considers potential use.
- Given we can't see the fomites (the viral residue from sneezing or left behind by contaminated hands) the thinking through of places where this is most likely to occur is important.

**Client Representative Commitments** 

- Provide list of rooms and floor plans of site to be cleaned
- Open site for cleaners to access the site at agreed time
- Provide contact details for each site
- Ensure that site staff has cleared desks, tables etc as per DFES recommendations
- Can add/delete rooms to cleaning scope on-site where there is a reduced risk of COVID19 contamination, dependant on the staff diagnosed
- Sign-off Compliance Certificate identify rooms not accessed and provide comments, as required

DFES to provide a spreadsheet which sets out a list of all the buildings and rooms that need to be cleaned. DFES to also provide a set of PDF Plans for the site showing buildings and rooms.

A sample of the spreadsheet is shown below.

The cleaner will fill in the spreadsheet and hand it to the DFES representative to sign off that the work has been satisfactorily completed.

The cleaner will need to confirm the date and time commenced and completed

BUILDING	ROOM	CLEANERS NAME	CLEANERS SIGNATURE	CLIENT REP NAME	CLIENT REP SIGNATURE	COMMENTS



# Mandatory Requirement Cleaning Contractor Certificate of Compliance

Please check off each box below. If not relevant put 'N/A'. If not complete, add a comment in the comments section.

ADDITIONAL CLEANING REQUIREMENTS	Everything below door head height (2.1m)	
	Internal and external door handles	
	Hand rails in stairways and movement areas	
	Lockers	
SWEEPING	Internal sealed floor surfaces are swept taking care that corners, edges and areas are clean and free of debris.	
	All rubbish is collected and disposed of.	
	Internal glass must be cleaned. Corners and edges are wiped clean	
	Internal hard or resilient floor surfaces are clean of dirt, grime, stains and spillages	
	Corners, edges and areas under furniture are thoroughly clean	



MOPPING	Internal hard or resilient floor surfaces must be clean of dirt, grime, stains and spillages	
	Corners, edges and areas under furniture are thoroughly clean	
CLEANING OF SURFACES	All surfaces below 2.1m such as partitions, sills, ledges, skirting boards, and furniture must be clean and free of dust	
	All desks, chairs, and other furnishings in classrooms and other learning areas must be cleaned and free from debris, stains, and soiling	
VACUUM CLEANING	All areas including under desks, furnishings and along skirting boards are to be free of litter/fluff and other foreign objects.	
TOILETS/ABLUTION AREAS	All furniture inclusions, fixed or otherwise, pans, cisterns, seats, urinals, taps, doors, piping, ductwork, dispensers and hand basins must be thoroughly cleaned, and disinfected using an appropriate germicidal cleanser.	
	Floors must be fully mopped and cleaned to maintain a clean and hygienic condition	
SLEEPING QUARTERS	Bed linen to be stripped from bed and bagged.	
	Bed frame and furniture to be cleaned free of debris	
	Mattress to be vacuumed. Client representative to decide if mattress is salvageable	
GLASS CLEANING	Internal glass must be cleaned. Corners and edges are wiped clean	
EXTERNAL	External door handles and handrails	
OTHER	(specify, site by site)	
	Enhanced Cleaning Priorities at individual sites	
Entry points to station	As first touch points	
Toilets	Often used before dressing + "as above"	
Kitchen		
Office		
Rest of facility		
	1	l



On behalf of WORKZONE PTY LTD I acknowledge that the cleaning of	(site
and room reference numbers) has been cleaned in accordance with the specifications.	•
Name and Signature (Workzone)	
Name and Signature (Representative of Client)	
Date	