# SAFETY DATA SHEET



Revision date: 24-Apr-2020

**Revision Number** 2

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

DC DUPLOX-O **Product Name** 

Product Code(s) 000000053852

Other means of identification

**UN** number 3264

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Sanitiser.

Uses advised against No information available.

<u>Supplier</u>

Ixom Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000

Australia

Telephone Number: +61 3 9906 3000

### Emergency telephone number

Emergency telephone number 1 800 033 111 (ALL HOURS)

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

### GHS Classification

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Corrosive to metals	Category 1 (H290)
Skin corrosion/irritation	Category 1 Sub-category C (H314)
Serious eye damage/eye irritation	Category 1 (H318)
Specific target organ toxicity (single exposure)	Category 3 (H335)

### SIGNAL WORD

Danger

#### Label elements

Corrosion



#### **Hazard statements**

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

### **Precautionary Statements - Prevention**

Keep only in original container

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

Absorb spillage to prevent material damage

#### **Precautionary Statements - Storage**

Store locked up

Store in corrosion resistant container with a resistant inner liner

### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

# Other hazards which do not result in classification

Poisons Schedule (SUSMP)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical name	CAS No.	Weight-%
Phosphoric acid	7664-38-2	15-30
Hydrogen peroxide	7722-84-1	<10
Octanoic acid	124-07-2	<5
Peracetic acid	79-21-0	<5
Other component(s)	-	to 100

# 4. FIRST AID MEASURES

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

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

Zealand 0800 764 766) or a doctor.

Emergency telephone number Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

000000053852 - DC DUPLOX-O

Revision date: 24-Apr-2020 Revision Number 2

Inhalation Remove to fresh air. Oxygen or artificial respiration if needed. Seek immediate medical

attention/advice.

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 effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

# 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** 

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media** No information available.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Corrosive.

Hazardous combustion products Carbon oxides. Nitrogen oxides.

Special protective actions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

Hazchem code 2X

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas.

**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 containment and cleaning up

000000053852 - DC DUPLOX-O

Revision date: 24-Apr-2020 Revision Number 2

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

After cleaning, flush away traces with water.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Avoid breathing vapors or mists. Avoid contact with skin and eyes. Do not eat, drink or

smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

Store away from foodstuffs. Keep container closed when not in use.

Incompatible materials Alkalis. Metals. Metal salts.

Poisons Schedule (SUSMP) 6

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure Limits No value assigned for this specific material by Safe Work Australia. However, Workplace

Exposure Standard(s) for constituent(s):

Chemical name	Australia	ACGIH TLV
Phosphoric acid	1 mg/m <sup>3</sup> TWA	STEL: 3 mg/m <sup>3</sup>
7664-38-2	3 mg/m <sup>3</sup> STEL	TWA: 1 mg/m <sup>3</sup>
Hydrogen peroxide	1 ppm	TWA: 1 ppm
7722-84-1	1.4 mg/m³ TWA	
Peracetic acid		STEL: 0.4 ppm inhalable fraction and
79-21-0		vapor

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

STEL - (ACGIH - Short-Term Exposure Limit) - a 15-minute TWA exposure which should not be exceeded at any time during a work day even if the 8-hour TWA is within the ACGIH -TWA. Exposures above the ACGIH-TWA up to the STEL should not be longer than 15 minutes and should not occur more than four times per day. There should be at least 60 minutes between successive exposures in this range.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

### 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.











**Eye/face protection** Goggles. Face protection shield.

**Skin and body protection**Boots. Apron. Overalls.

Hand protection Impervious gloves.

**Respiratory protection** If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator

meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls** No information available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Clear Liquid

AppearanceNo information available.ColorNo information available.

Odor Characteristic.

Odor threshold No information available.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

>1.95 (1% solution - demineralised None known

water)

Melting point / freezing point No data available None known Boiling point / boiling range No data available None known Flash point Not applicable None known No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available Vapor pressure None known No data available None known Vapor density Relative density 1.17-1.20 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** No data available 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 metals.

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 Direct sunlight. Heat. Temperatures above 25 °C / 77 °F.

**Incompatible materials** 

Incompatible materials Alkalis. Metals. Metal salts.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides.

# 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** Irritating to respiratory system.

**Eye contact** Causes serious eye damage.

**Skin contact** Contact causes severe skin irritation and possible burns.

**Ingestion** Can burn mouth, throat, and stomach

**Symptoms** No information available.

### Numerical measures of toxicity - Product Information

No information available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric acid	= 1530 mg/kg (Rat)	= 2740 mg/kg ( Rabbit )	> 850 mg/m³ (Rat) 1 h
Hydrogen peroxide	= 1518 mg/kg (Rat)	= 9200 mg/kg ( Rabbit )	= 2000 mg/m³ ( Rat ) 4 h
Octanoic acid	= 10080 mg/kg (Rat)	> 5 g/kg(Rabbit)	-
Peracetic acid	= 1540 mg/kg (Rat)	= 1410 μL/kg (Rabbit)	= 476 mg/m <sup>3</sup> (Rat) 1 h

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. Classification based on individual ingredients of the mixture.

Serious eye damage/eye irritation Causes burns. Classification based on individual ingredients of the mixture.

**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** May cause respiratory irritation.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
			microorganisms	
Phosphoric acid	-	LC50: 3 - 3.5mg/L (96h,	-	EC50: =4.6mg/L (12h,
		Gambusia affinis)		Daphnia magna)
Hydrogen peroxide	EC50: =2.5mg/L (72h,	LC50: =16.4mg/L (96h,	-	EC50: 18 - 32mg/L (48h,
	Chlorella vulgaris)	Pimephales promelas)		Daphnia magna) EC50:
		LC50: 18 - 56mg/L (96h,		=7.7mg/L (24h, Daphnia
		Lepomis macrochirus)		magna)
		LC50: 10.0 - 32.0mg/L		
		(96h, Oncorhynchus		
		mykiss)		
Octanoic acid	-	LC50: =310mg/L (96h,	-	EC50: =170mg/L (24h,

		Oryzias latipes) LC50: =110mg/L (96h, Brachydanio rerio)		Daphnia magna)
Peracetic acid	-	LC50: =1.1mg/L (96h,	-	-
		Lepomis macrochirus)		

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

Chemical name	Partition coefficient
Octanoic acid	2.92

**Mobility** 

Mobility in soil No information available.

Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

### 14. TRANSPORT INFORMATION

<u>ADG</u>

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and

Rail: DANGEROUS GOODS.

UN number 3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS PHOSPHORIC ACID)

Hazard class 8
Packing group III
Hazchem code 2X

<u>IATA</u>

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 3264

UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS PHOSPHORIC ACID)

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 3264

UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS PHOSPHORIC ACID)

Transport hazard class(es)

Packing groupIIIIMDG EMS FireF-AIMDG EMS SpillS-BMarine pollutantNo

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

### **National regulations**

#### Australia

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP)

Chemical name	National pollutant inventory
Phosphoric acid - 7664-38-2	10 tonne/yr Threshold category 1

#### **International Inventories**

AICS All the constituents of this material are listed on the Australian Inventory of Chemical

Substances.

#### Legend:

AICS - Australian Inventory of Chemical Substances

#### 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. OTHER INFORMATION

Supplier Safety Data Sheet 12/2019

ACGIH is a registered trademark of The American Conference of Governmental Industrial Hygienists.

**Reason(s) For Issue:** Revised Primary SDS Change in Hazardous Chemical Classification

Change to Transport Information

Issuing Date: 24-Apr-2020

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

**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 STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

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

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

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

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If clarification or further information is needed, the user should contact their lxom representative or lxom Operations Pty Ltd at the contact details on page 1.

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**End of Safety Data Sheet**