Revision Date 02/17/2015

PROXITANE SANITISER, PROXITANE AG SANITISER

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the substance or mixture

Product name	:	PROXITANE SANITISER, PROXITANE AG SANITISER
Synonyms	:	Peracetic acid, Peroxyethanoïc acid, PAA
Molecular formula	:	CH3-COOOH

1.2. Use of the Substance/Mixture

Recommended use :
- Cleaning agent
- Disinfectants and general biocidal products
- Oxidizing agents

1.3. Company/Undertaking Identification

Address	:	SOLVAY INTEROX Pty Ltd MCPHERSON STREET, 20-22 AUS- 2019 BANKSMEADOW
Telephone	:	+3222642111
Telefax	:	+3222643061

1.4. Emergency and contact telephone numbers

Emergency telephone number	:	**+61 2801 44558 [Carechem 24]**
E-mail address	:	**manager.sds@solvay.com**

2. HAZARDS IDENTIFICATION

Appearance	:	liquid
Colour	:	colourless
Odour	:	pungent

- Classified as hazardous according to criteria of NOHSC.
- Classified as dangerous goods according to the ADG Code
- May intensify fire; oxidiser.
- May be corrosive to metals.
- Harmful if swallowed.
- Harmful if inhaled.
- Harmful in contact with skin.
- Causes severe skin burns and eye damage.
- May cause respiratory irritation.
- Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name (CAS-No. / EC-No. / Annex-1)	Concentration (W/W)	Classification	R-phrase(s)
Hydrogen peroxide (7722-84-1 / 231-765-0 / 008-003-00-9)	**ca. 20 %**	 O C Xn	R 5 R 8 R35 R20/22
Acetic acid (64-19-7 / 200-580-7 / 607-002-00-6)	**ca. 10 %**	 C	R10 R35
Peracetic acid (79-21-0 / 201-186-8 / 607-094-00-8)	**ca. 5 %**	 O Xn C N	R10 R 7 R20/21/22 R35 R50

4. FIRST AID MEASURES

4.1. Inhalation

- Move to fresh air.
- Oxygen or artificial respiration if needed.
- Victim to lie down in the recovery position, cover and keep him warm.
- Call a physician immediately.

4.2. Eye contact

- Call a physician or poison control centre immediately.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).
- Take victim immediately to hospital.

4.3. Skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with plenty of water.
- Keep warm and in a quiet place.
- Call a physician or poison control centre immediately.
- Wash contaminated clothing before re-use.

4.4. Ingestion

- Call a physician or poison control centre immediately.
- Take victim immediately to hospital.
- If swallowed, rinse mouth with water (only if the person is conscious).
- Do NOT induce vomiting.
- Artificial respiration and/or oxygen may be necessary.

4.5. Notes to physician

- Take victim immediately to hospital.
- Immediate medical attention is required.
- Consult with an ophthalmologist immediately in all cases.
- Burns must be treated by a physician.
- If swallowed

- Avoid gastric lavage (risk of perforation).
- Keep under medical supervision for at least 48 hours.

5. FIREFIGHTING MEASURES

5.1. Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Water
- Water spray

5.2. Extinguishing media which shall not be used for safety reasons

- None

5.3. Special exposure hazards in a fire

- May cause fire or explosion; strong oxidiser.
- Oxygen released in thermal decomposition may support combustion

5.4. Special protective equipment for firefighters

- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.
- Wear chemical resistant oversuit
- Cool containers/tanks with water spray.
- Prevent fire extinguishing water from contaminating surface water or the ground water system.

5.5. Other information

- HAZCHEM Code: 2P

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.
- Use personal protective equipment.
- Drying of this product on clothing or combustible materials may cause fire.
- Keep wetted with water.
- Prevent further leakage or spillage.
- Keep away from incompatible products
- Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

- Discharge into the environment must be avoided.
- Do not flush into surface water or sanitary sewer system.
- In case of accidental release or spill, immediately notify the appropriate authorities if required by Federal, State/Provincial and local laws and regulations.

6.3. Methods for cleaning up

- Dam up.
- Soak up with inert absorbent material.
- Prevent product from entering drains.
- Keep in suitable, closed containers for disposal.
- Keep in properly labelled containers.

7. HANDLING AND STORAGE

7.1. Handling

- Use only in well-ventilated areas.
- Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer.
- Use only clean and dry utensils.
- Never return unused material to storage receptacle.
- May not get in touch with:
- Organic materials
- Keep away from Incompatible products.
- Keep away from heat.

7.2. Storage

- Store in original container.
- Keep tightly closed in a dry, cool and well-ventilated place.
- Keep in properly labelled containers.
- Keep in a bunded area.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Electrical equipment should be protected to the appropriate standard.
- Keep away from incompatible products
- OP Storage (Burning Rate) Type IV according to the BGV B4 test method

7.3. Specific use(s)

- For further information, please contact: Supplier

7.4. Packaging material

- Stainless steel cleaned and passived
- Approved grades of HDPE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Limit Values

Hydrogen peroxide

- US. ACGIH Threshold Limit Values 02 2014
  time weighted average = 1 ppm
- National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A) 08 2005
  time weighted average = 1 ppm
  time weighted average = 1.4 mg/m3
- Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) 08 2005
  Remarks: Listed
- National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A) 12 2011
  time weighted average = 1 ppm
  time weighted average = 1.4 mg/m3

Peracetic acid

- US. ACGIH Threshold Limit Values 02 2014
  Short term exposure limit = 0.4 ppm
  Remarks: Inhalable fraction and vapor.

Acetic acid

- US. ACGIH Threshold Limit Values 03 2013
  time weighted average = 10 ppm
- US. ACGIH Threshold Limit Values 03 2013
  Short term exposure limit = 15 ppm
- Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) 08 2005
  time weighted average = 10 ppm
  time weighted average = 25 mg/m3
- Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) 08 2005
  Short term exposure limit = 15 ppm
  Short term exposure limit = 37 mg/m3
- Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) 08 2005
  Remarks: Listed
- Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A) 12 2011
  time weighted average = 10 ppm
  time weighted average = 25 mg/m3
- Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A) 12 2011
  Short term exposure limit = 15 ppm
  Short term exposure limit = 37 mg/m3

8.2. Exposure controls

- Provide adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Respirator with a vapour filter (EN 141)
- Recommended Filter type:
- ABEK-P2

8.2.1.2. Hand protection

- Impervious gloves
- Suitable material : butyl-rubber
- Glove thickness
- >= 0,4 mm
- Break through time:
- > 480 min
- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

8.2.1.3. Eye protection

- Chemical resistant goggles must be worn.
- If splashes are likely to occur, wear: Tightly fitting safety goggles, Face-shield

8.2.1.4. Skin and body protection

- Apron/boots of butyl rubber if risk of splashing.

8.2.1.5. Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

8.2.2. Environmental exposure controls

- Dispose of rinse water in accordance with local and national regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information (appearance, odour)

Appearance	:	liquid
Colour	:	colourless
Odour	:	pungent

9.2. Important health safety and environmental information

pH	:	< 2
pKa	:	pKa1= 8.2 *Temperature*: 25 °C
Boiling point/boiling range	:	ca. 105 °C *Method*: calculated value
Flash point	:	74 - 83 °C *Method*: closed cup
Flammability	:	*Remarks*: The product is not flammable., Heating may cause a fire.
Explosive properties	:	*Explosion danger*: *Remarks*: Not explosive
Oxidizing properties	:	*Remarks*: Oxidizer
Vapour pressure	:	ca. 32 hPa *Temperature*: 25 °C *Method*: calculated value
Relative density / Density	:	1.1
Bulk density	:	*Remarks*: Not applicable
Solubility(ies)	:	Water *Remarks*: completely miscible
	:	Polar organic solvents *Remarks*: soluble
	:	Aromatic solvents *Remarks*: slightly soluble

Partition coefficient: n-octanol/water	:	*log Pow*: -1.25 *Method*: calculated value
	:	*log Pow*: -0.52 *Method*: measured value
Viscosity	:	*Remarks*: no data available

9.3. Other data

Freezing point:	:	ca. -42 °C *Method*: calculated value
Auto-flammability	:	*Remarks*: no data available
Decomposition temperature	:	>= 60 °C *Remarks*: Self-Accelerating decomposition temperature (SADT)

10. STABILITY AND REACTIVITY

10.1. Stability

- Stable under recommended storage conditions.
- Decomposes on heating.
- Heating may cause a fire.
- Potential for exothermic hazard

10.2. Conditions to avoid

- Contamination
- To avoid thermal decomposition, do not overheat.
- Contact with combustible material may cause fire.
- Contact with flammables may cause fire or explosions.
- Risk of explosion if heated under confinement.
- Fire or intense heat may cause violent rupture of packages.

10.3. Materials to avoid

- Acids, Bases, Metals, Heavy metal salts, Powdered metal salts, Reducing agents, Organic materials, Flammable materials

10.4. Hazardous decomposition products

- Oxygen

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological data

Acute oral toxicity

- LD50, Rat, > 300 mg/kg (5 % PAA mixture)

Acute inhalation toxicity

- LC50, 4 h, Rat, 4,080 mg/m3 (5 % PAA mixture), Remarks: aerosol

Acute dermal toxicity

- LD50, Rabbit, 1,147 mg/kg (5 % PAA mixture)

Skin irritation
- Rabbit, Corrosive

Eye irritation
- Rabbit, Causes serious eye damage.

Irritation (other route)
- Inhalation, Rat, Irritating to respiratory system., 22 - 24 mg/m3, RD 50, (Peracetic acid)

Sensitisation
- Guinea pig, Did not cause sensitization on laboratory animals.

Chronic toxicity
- Oral route (gavage), 13 weeks, Rat, NOEL**:** 0.75 mg/kg, NOAEL, (Peracetic acid)
- oral (drinking water), 13 weeks, Mouse, NOEL**:** 100 ppm, NOAEL, (Hydrogen peroxide)

Carcinogenicity
- no data available

Genetic toxicity in vitro
- In vitro tests have shown mutagenic effects.

Genetic toxicity in vivo
- Animal testing did not show any mutagenic effects.

Reproductive toxicity
- No toxicity to reproduction

Possible hazards (summary)
- no data available

11.2. Health effects

Inhalation
- Severe respiratory irritant
- Symptoms: Breathing difficulties, Cough, chemical pneumonitis, pulmonary oedema.
- Repeated or prolonged exposure: Nose bleeding, chronic bronchitis.

Eye contact
- Corrosive
- May cause irreversible eye damage.
- Symptoms: Redness, Lachrymation, Swelling of tissue, Burn.

Skin contact
- Corrosive
- Symptoms: Redness, Swelling of tissue, Burn.

Ingestion
- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
- Symptoms: Nausea, Abdominal pain, Bloody vomiting, Diarrhoea, Suffocation, Cough, Severe shortness of breath.
- Risk of: Respiratory disorder.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity effects

Acute toxicity
- Fishes, Lepomis macrochirus, LC50, 96 h, 1.1 mg/l (Peracetic acid)
- Danio rerio (zebra fish), NOEC, 33 Days, 0.00094 mg/l (Peracetic acid)

- Crustaceans, Daphnia magna, EC50, 48 h, 0.73 mg/l (Peracetic acid)

Chronic toxicity

- Pseudokirchneriella subcapitata (green algae), EC50, 72 - 96 h, 0.16 mg/l (Peracetic acid)

12.2. Mobility

- Water
  Remarks: soluble, mobile
- Soil/sediments
  Remarks: non-significant adsorption

12.3. Persistence and degradability

Abiotic degradation

- Air
  Result: The product can be degraded by abiotic (e.g. chemical or photolytic) processes.
- Water
  Result: Chemical degradation
- Soil
  Result: Chemical degradation

Biodegradation

- aerobic
  Result: Biodegradable.
- Effects on waste water treatment plants
  Result: inhibitory action

12.4. Bioaccumulative potential

- Result: Does not bioaccumulate.

12.5. Other adverse effects

- no data available

12.6. Possible hazards (summary)

- no data available

13. DISPOSAL CONSIDERATIONS

13.1. Waste from residues / unused products

- Contact manufacturer.
- Contact waste disposal services.
- In accordance with local and national regulations.

13.2. Packaging treatment

- Empty containers.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Where possible recycling is preferred to disposal or incineration.
- In accordance with local and national regulations.

14. TRANSPORT INFORMATION

International transport regulations

- **IATA-DGR**

14.1. UN number	UN3149
14.2. UN proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE,STABILIZED
14.3. Transport hazard class(es)	
Hazard class	5.1
Labels	5.1 - Oxidizing substances 8 - Corrosive
14.4. Packing group	II
14.5. Environmental hazards	
14.6. Special precautions for user	

- **IMDG**

14.1. UN number	UN3149
14.2. UN proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE,STABILIZED
14.3. Transport hazard class(es)	
Hazard class	5.1
Labels	5.1 - Oxidizing substances 8 - Corrosive
14.4. Packing group	II
14.5. Environmental hazards	
14.6. Special precautions for user	
EmS	F-H S-Q

- **ADG**

14.1. UN number	UN3149
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
Hazard class	5.1
Labels	5.1 - Oxidizing substances 8 - Corrosive
14.4. Packing group	II
14.5. Environmental hazards	
14.6. Special precautions for user	
Hazchem Code	2P

15. REGULATORY INFORMATION

15.1. Labels

- Hazardous components which must be listed on the label: Hydrogen peroxide / Acetic acid / Peracetic acid

- Classified as hazardous according to criteria of NOHSC.

Symbol(s)	O	Oxidising
	C	Corrosive
	Xn	Harmful
	Xi	Irritant
R-phrase(s)	R 8	Contact with combustible material may cause fire.
	R34	Causes burns.
	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R41	Risk of serious damage to eyes.
	R37	Irritating to respiratory system.
S-phrase(s)	S 3/7	Keep container tightly closed in a cool place.
	S14	Keep away from easily oxidizable materials.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S29	Do not empty into drains.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S46	If swallowed, seek medical advice immediately and show this container or label.

15.2. Other information

- The percentage concentration of the solution has to be indicated next to the product name.

15.3. Inventory Information

USA. Toxic Substances Control Act (TSCA)	: -	In compliance with inventory.
Australia. Inventory of Chemical Substances (AICS)	: -	In compliance with inventory.
Canada. Domestic Substances List (DSL)	: -	In compliance with inventory.
Korea. Existing Chemicals Inventory (KECI (KR))	: -	In compliance with inventory.
EU list of existing chemical substances (EINECS)	: -	In compliance with inventory.
Japan. Inventory of Existing & New Chemical Substances (ENCS)	: -	In compliance with inventory.
China. Inventory of Existing Chemical Substances (IECSC)	: -	In compliance with inventory.
Philippine. Inventory of Chemicals and Chemical Substances (PICCS)	: -	In compliance with inventory.
New Zealand. Inventory of	: -	In compliance with inventory.

Chemicals (NZIOC)		
Mexico INSQ (INSQ)	: -	In compliance with inventory.

15.4. National regulatory information

- Expert judgement
- National Pollutant Inventory (NPI) substance reporting list (NPI Guide, Version 5.1, February 2010.)
- SUSMP, Sch. 2, Pharmacy Medicine (Standard for Uniform Scheduling of Medicines & Poisons, No. 3, as amended thru SUSMP No. 3, Amd. 2, Aug. 8, 2012)
- SUSMP, Sch. 5, Poisons to be labeled: Caution (Standard for Uniform Scheduling of Medicines & Poisons, No. 3, as amended thru SUSMP No. 3, Amd. 2, Aug. 8, 2012)
- SUSMP, Sch. 6, Poisons to be labeled: Poison (Standard for Uniform Scheduling of Medicines & Poisons, No. 3, as amended thru SUSMP No. 3, Amd. 2, Aug. 8, 2012)
- SUSMP, App. E, Poisons to be labeled with First Aid Statements (Standard for Uniform Scheduling of Medicines & Poisons, No. 3, as amended thru SUSMP No. 3, Amd. 2, Aug. 8, 2012)
- SUSMP, App. F: Poisons to be labeled with Warning Statements or Safety Directions (Standard for Uniform Scheduling of Medicines & Poisons, No. 3, thru SUSMP No. 3, Amd. 2, Aug. 8, 2012)
- High Volume Industrial Chemicals (HVIC) (2002)
- GHS Hazardous Chemical Information List (Hazardous Substances Information System (HSIS), as amended through September 2014)
- List of Designated Hazardous Substances (Hazardous Substances Information System (HSIS), as amended)

16. OTHER INFORMATION

16.1. Administrative information

- Update
- General revision
- Distribute new edition to clients

16.2. Text of R phrases mentioned in Section 3

- R 5**:** Heating may cause an explosion.
- R 7**:** May cause fire.
- R 8**:** Contact with combustible material may cause fire.
- R10**:** Flammable.
- R20/22**:** Harmful by inhalation and if swallowed.
- R20/21/22**:** Harmful by inhalation, in contact with skin and if swallowed.
- R35**:** Causes severe burns.
- R50**:** Very toxic to aquatic organisms.

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. This applies to product which conforms to the specification, unless otherwise stated. In this case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and the environment.