

SAFETY DATA SHEET

Peroxy-5



Compilation date : 23/06/ 2019

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Revision No.: 4

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product name: Peroxy-5

Product code: PAA-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance/mixture: PC8: Biocidal products (e.g. Disinfectants, pest control)

PC35: Washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet

Company name: Siam Aqua Tech Development System Co., Ltd. 6/106 Soi Dan Sumrong
11, Moo 5 Sukhumvit 113, T. Sumrong Nua, A. Muang Samutprakarn,
10270, THAILAND

Manufacturing address: 9 Moo 10, T. Tandiew, A. Kaengkhroi, Saraburi 18110, THAILAND

Tel: (66)-2-006-7571

E-mail: jthreeprom@yahoo.co.th

1.4 Emergency telephone number

Emergency tel: (66)-83-1454522
(office hours only)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP: Ox. Liq. 3: H272; Skin corr. 1A; H314; STOT SE 3: H335; Acute Oral Tox: 5; H303; Acute Dermal Tox: 5 ;H313

Most important adverse effects: May intensify fire; oxidizer. Causes severe skin burns and eye damage.
May cause respiratory irritation.

2.2 Label elements

Label elements under CLP:

Hazard statements: H272: May intensify fire; oxidizer
H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation

H303+H313: May be harmful if swallowed or in contact with skin

Hazard pictograms: GHS03: Flame over circle
GHS05: Corrosion
GHS07: Exclamation mark



Signal words: Danger

Precautionary statements: P210: Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P260: Do not breathe dust/fumes/gas/mist/vapours/spray
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+330+331: IF SWALLOWED: rinse mouth. Do not induce vomiting
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a **position comfortable for breathing**

2.3 Other hazards

PBT: This product is not identified as as PBT/vPvB substance

Section 3: Composition/information on ingredients

3.2 Mixture

Hazardous ingredients:

HYDROGEN PEROXIDE SOLUTION

EINECS	CAS	PBT/WEL	CLP Classification	Percent
231-765-0	7722-84-1	-	Ox. Liq. 1: H271; Acute Tox. 4: H332; Acute Tox. 4: H302; Skin Corr. 1A: H314	20%

ACETIC ACID

EINECS	CAS	PBT/WEL	CLP Classification	Percent
200-580-7	64-19-7	-	Flam. Liq. 3 : H226; Skin Corr. 1A	10%

PERACETIC ACID-REACH registered number (s): 01-2119531330-56-XXXX

EINECS	CAS	PBT/WEL	CLP Classification	Percent
201-186-8	79-21-0	-	Flam. Liq. 3: H226; Org. Perox. CD; H242; Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1A: H314; Aquatic Acute 1: H400	5%

Section 4: First aid measures

4.1 Description of first aid measures

- Skin contact:** Wash immediately with plenty of soap and water.
- Eye contact:** Bathe the eye with running water for 15 minutes
- Ingestion:** Wash out mouth with water
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.
Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

- Skin contact:** There may be mild irritation at the site of contact
- Eye contact:** There may be irritation and redness
- Ingestion:** There may be irritation of the throat
- Inhalation:** No symptoms

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate/special treatment: Not applicable

Section 5: Fire – fighting measures

5.1 Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes

5.3 Advice for fire – fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking container leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

6.2 Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using

bunding.

6.3 Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

Reference to other sections: Refer to section of SDS

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

7.3 Specific end use (s)

Specific end use (s): No data available

Section 8: Exposure control/personal protection

8.1 Control parameters

Workplace exposure limits: No data available

DNEL/PNEC values

DNEL/PNEC: No data available

8.2 Exposure controls

Engineering measures: The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin protection: Protective clothing

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	Liquid
Colour:	Colourless
Odour:	Pungent
Evaporation rate:	No data available
Oxidizing:	Oxidizing (by EC criteria)
Solubility in water:	Miscible in all proportions
Viscosity:	Non-viscous
Boiling point/range (C):	100
Melting point/range (C):	-26-17
Flammability limits %: lower:	4

:upper:	No data available
Flash point (C):	83
Part. Coeff. n-octanol/water:	No data available
Auto-flammability (C):	485
Vapour pressure:	23 hPa
Relative density:	1.110-1.120
pH:	<1
VOC g/l:	No data available

9.2 Other information

Other information:	No data available
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Section 10: Stability and reactivity

10.1 Reactivity

Reactivity:	Stable under recommended transport or storage conditions
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10.2 Chemical stability

Chemical stability:	Stable under normal conditions
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10.3 Possibility of hazardous reactions

Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
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10.4 Conditions to avoid

Condition to avoid:	Heat
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10.5 Incompatible materials

Materials to avoid:	Strong oxidizing agents. Strong acids.
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10.6 Hazardous decomposition products

Haz. Decomp. Products:	In combustion emits toxic fumes.
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Section 11: Toxicological information

11.1 Information on toxicological effects of the product (mixture solution, Peroxy-5)

Toxicity values:

Route	Species	Test	Value	Unit
ORAL	RAT	LD50	2,980	mg/kg
DERMAL	RAT	LD50	>2,000	mg/kg
VAPOURS	RAT	4H LC50	>36	mg/kg

Hazardous ingredients:

HYDROGEN PEROXIDE SOLUTION...100%

Route	Species	Test	Value	Unit
ORL	MUS	LD50	2	mg/kg
ORL	RAT	LD50	376	mg/kg
SKN	RAT	LD50	4060	mg/kg

ACETIC ACID...100%

Route	Species	Test	Value	Unit
IVN	MUS	LD50	525	mg/kg
ORL	RAT	LD50	3310	mg/kg

PERACETIC ACID...100%

Route	Species	Test	Value	Unit
IVN	MUS	LD50	17860	mg/kg
ORL	MUS	LD50	210	mg/kg
ORL	RAT	LD50	1540	ul/kg

Relevant hazard for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

Symptoms/routes of exposure

Skin contact: There may cause severe skin burns
Eye contact: There may be irritation and eye damage
Ingestion: There may be irritation of the throat
STOT-single exposure: There may be respiratory tract irritation

Delayed/immediate effects: Immediate effects can be expected after short term exposure

Section 12: Ecological information

12.1 Toxicity

Ecotoxicity values:

Species	Test	Value	Units
ALGAE	96H LC50	>300	mg/l
Daphnia magna	48H EC50	>300	mg/l

12.2 Persistence and degradability

Persistence and degradability: Not biodegradable

12.3 Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential

12.4 Mobility in soil

Mobility: Readily absorbed into soil

12.5 Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance

12.6 Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialized disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1 UN number

UN number: UN3149

14.2 UN proper shipping name

Shipping name: HYDROGEN PEROXIDE AND PERACETIC ACID MIXTURE, STABILIZED

14.3 Transport hazard class (es)

Transport class: 5.1 (8)

14.4 Packing group

Packing group: II

14.5 Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user

Special precaution:	No special precautions
Tunnel code:	E
Transport category:	2

Section 15: Regulatory information

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

Specific regulations: Not applicable

15.2 Chemical safety assessment

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.

Phrases used in Section 2 and Section 3:

H226:	Flammable liquid and vapour
H242:	Heating may cause a fire
H271:	May cause fire or explosion; strong oxidizer
H272:	may intensify fire; oxidizer
H302:	Harmful if swallowed
H303:	May be harmful if swallowed
H312:	Harmful in contact with skin
H313:	May be harmful in contact with skin
H314:	Causes severe skin burns and eye damage
H332:	Harmful if inhaled
H335:	May cause respiratory irritation
H400:	Very toxic to aquatic life

Legend to abbreviations:

PNEC	predicted no effect concentration
DNEL	derived no effect level
LD50	median lethal dose
LC50	median lethal concentration
LDLO	lethal dose low
EC50	median effective concentration
IC50	median inhibitory concentration
dw	dry weight
bw	body weight
cc	closed cup
oc	open cup
MUS	mouse
GPG	guinea pig

RBT	rabbit
HAM	hamster
HMN	human
PGN	pigeon
IVN	intravenous
SCU	subcutaneous
SKN	skin
DRM	dermal
OCC	ocular/corneal
OPT	optical
INH	inhalation
PCP	physico-chemical properties