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PROXITANE ® 15:23

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name : PROXITANE ® 15:23

Product grade(s) : PROXITANE ® 1512, PROXITANE ® 1512AL e, PAA 150

Molecular formula : CH3-COOOH Type of product : Mixture

Identified uses / Uses advised against

Identified uses : Cleaning agent

Disinfectants and general biocidal products

Water treatment Oxidising Agents

Manufacturer or supplier's details

Company : SOLVAY PEROXYTHAI LIMITED

Address : 16TH FL. WAVE PLACE, 55 WIRELESS RD

T. 10330 BANGKOK
Telephone : +6626106470
Fax : +66662/3673272

E-mail address : sdstracking@solvay.com

Emergency telephone number : 001800 1 2066 6751 (internal) / +65 3158 1074 [Carechem24]

2. HAZARDS IDENTIFICATION

GHS-Classification

This mixture is classified as dangerous according to Thai legislation.

Physical Hazard

Hazard class	Hazard category	Route of exposure	H Phrases
Organic peroxides	Type F		H242

Health hazard

Hazard class	Hazard category	Route of exposure	H Phrases
Skin corrosion	Category 1A		H314
Serious eye damage	Category 1		H318
Acute toxicity	Category 4	Oral	H302
Acute toxicity	Category 3	Inhalation	H331
Acute toxicity	Category 4	Dermal	H312
Target Organ Systemic Toxicant - Single exposure	Category 3	Inhalation	H335

GHS Label elements, including precautionary statements

Name(s) on label

Hazardous components : Peracetic acid (15 %)

Hydrogen peroxide (23 %)

Acetic acid (17 %)



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Signal word:

Danger

Hazard symbols:







Hazard statements:

Heating may cause a fire. Harmful if swallowed. Harmful in contact with skin.

Toxic if inhaled.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statements

Response

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Other hazards which do not result in classification

- May cause fire.
- Causes burns.
- · Toxic by inhalation.
- · Harmful in contact with skin and if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name:	Concentration	
Peracetic acid CAS-No.: 79-21-0	ca. 15 %	
Hydrogen peroxide CAS-No.: 7722-84-1	ca. 23 %	
Acetic acid CAS-No.: 64-19-7	ca. 16 %	



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Hazardous components

Substance name	Hazard class	Hazard category	Route of exposure	H Phrases
Peracetic acid	Flammable liquids	Category 3		H226
	Organic peroxides	Type D		H242
	Acute toxicity	Category 4	Inhalation	H332
	Acute toxicity	Category 4	Dermal	H312
	Acute toxicity	Category 4	Oral	H302
	Skin corrosion	Category 1A		H314
	Acute aquatic hazard	Category 1		H400
Hydrogen peroxide	Oxidizing liquids	Category 1		H271
	Acute toxicity	Category 4	Inhalation	H332
	Acute toxicity	Category 4	Oral	H302
	Skin corrosion	Category 1		H314
	Specific target organ toxicity - single exposure	Category 3	Inhalation	H335
	Acute aquatic toxicity	Category 2		H401
	Chronic aquatic toxicity	Category 3		H412
Acetic acid	Flammable liquids	Category 3		H226
Skin corrosion		Category 1A		H314

4. FIRST AID MEASURES

Description of necessary first-aid measures

If inhaled

- 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.

In case of 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.

In case of 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.

If swallowed

- 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.



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Most important symptoms/effects, acute and delayed

Inhalation

- Corrosive to respiratory system
- Symptoms: Breathing difficulties, Cough, chemical pneumonitis, pulmonary oedema
- Repeated or prolonged exposure: Nose bleeding, chronic bronchitis

Skin contact

- Corrosive
- Causes severe burns.
- Symptoms: Redness, Swelling of tissue

Eye contact

- Corrosive
- Causes severe burns.
- May cause irreversible eye damage.
- May cause blindness.
- Symptoms: Redness, Lachrymation, Swelling of tissue

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

Indication of immediate medical attention and special treatment needed, if necessary

- Take victim immediately to hospital.
- · Immediate medical attention is required.
- · Usual treatment for burns.
- · Prevention or treatment for shock and pulmonary oedema.
- · Medical supervision for minimum 48 hours.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

· None.

Specific hazards arising from the chemical

- Heating may cause a fire.
- Oxygen released in thermal decomposition may support combustion

Special protective actions for fire-fighters

- · 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.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.

Advice for emergency responders

- 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.

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.

Methods and materials for containment and cleaning up

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

Reference to other sections

· Refer to protective measures listed in sections 7 and 8.

7. HANDLING AND STORAGE

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

Storage

- Keep in properly labelled containers.
- Keep tightly closed in a dry, cool and well-ventilated place.
- Keep in a bunded area.
- · Electrical equipment should be protected to the appropriate standard.
- Keep away from Incompatible products.

Specific use(s)

· For further information, please contact: Supplier



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limit Values

Peracetic acid

SAEL (Solvay Acceptable Exposure Limit) 2008

TWA = 0.2 ppm

Hydrogen peroxide

US. ACGIH Threshold Limit Values 03 2012 time weighted average = 1 ppm

Acetic acid

· US. ACGIH Threshold Limit Values 03 2012

time weighted average = 10 ppm

US. ACGIH Threshold Limit Values 03 2012

Short term exposure limit = 15 ppm

Thailand. OELs. Notification of the Ministry of Interior, Re: Working Safety in Respect to Environmental Condition (Chemical) 03 2001

time weighted average = 10 ppm

time weighted average = 25 mg/m3

 Thailand. OELs. Notification of the Ministry of Interior, Re: Working Safety in Respect to Environmental Condition (Chemical) 03 2001

Remarks: Listed

Exposure controls

Appropriate engineering controls

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

Individual protection measures

Respiratory protection

- In case of insufficient ventilation, wear suitable respiratory equipment.
- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

- · Impervious gloves
- 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).
- · Suitable material: butyl-rubber

Eye protection

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

Skin and body protection

- Chemical resistant apron
- If splashes are likely to occur, wear: Apron/boots of butyl rubber if risk of splashing.

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.

Environmental exposure controls

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



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

General Information

Appearance liquid
 Colour colourless
 Odour pungent
 Important health safety and environmental information

pH < 1.5

pKa
 pKa1= 8,2 at 25 °C

Melting point/freezing point ca. -42 °C

(calculated value)

Boiling point/boiling range ca. 105 °C, (calculated value)

Flash point not applicable, Flammable vapours may occur above the SADT

Evapouration rate No data

Flammability (solid, gas) not applicable
Flammability not applicable
Explosive properties Not explosive

Vapour pressure
 ca. 32 hPa, at 25 °C; Method: calculated value

Vapour density no data available

Density no data available

Relative density 1,1Bulk density No data

Solubility(ies)

1.000 g/l, at 20 °C, Water

completely miscible (Water)

soluble (Organic solvents)

slightly soluble, Aromatic solvents

 Partition coefficient: noctanol/water log Pow: -1,25, Method: calculated value

log Pow: -0,52, Method: measured value

Auto-ignition temperature 270 - 430 °C

Decomposition temperature
 >= 55 °C, Self-Accelerating decomposition temperature (SADT)

Viscosity no data available

Oxidizing properties Oxidizer

Other information

. Shelf life 12 Months from Manufacturing date (Typically Proxitane demonstrates 1% loss

of relative concentration per year when stored in the original sealed container

under recommended storage condition)



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10. STABILITY AND REACTIVITY

Reactivity

- Decomposes on heating.
- Heating may cause a fire.
- · Potential for exothermic hazard

Chemical stability

Stable under recommended storage conditions.

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.

Materials to avoid

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

Hazardous decomposition products

Oxygen

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity

LD50, rat, 652 mg/kg (11,7 % PAA mixture)

Acute inhalation toxicity

LC50, rat , 0,5 - 1,3 mg/l, aerosol (15 % PAA mixture)

Acute dermal toxicity

LD50, rabbit, 1.957 mg/kg (11,7 % PAA mixture)

Irritation (other route)

· Inhalation, Irritating to respiratory system. (1 % PAA mixture)

Skin corrosion/irritation

rabbit, Corrosive (10 % PAA mixture)

Serious eye damage/eye irritation

· rabbit, Risk of serious damage to eyes. (10 % PAA mixture)

Sensitisation

· guinea pig, Did not cause sensitisation on laboratory animals.

Mutagenicity

- In vitro tests did not show mutagenic effects
- Animal testing did not show any mutagenic effects.

Carcinogenicity

Not classified due to inconclusive data.

Toxicity for reproduction

· No toxicity to reproduction



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- rat, 30,4 mg/kg, NOAEL, foetotoxic effect
- rat, 12,5 mg/kg, NOAEL, female

Repeated dose toxicity

Oral, 13 weeks, rat, 0,75 mg/kg, NOAEL

Other information

· no data available

12. ECOLOGICAL INFORMATION

Toxicity

- Fishes, Brachydanio rerio, LC50, 96 h, 7,2 mg/l (15 % PAA mixture)
- Crustaceans, Daphnia magna, EC50, 48 h, 3,2 mg/l (15 % PAA mixture)
- · Pseudokirchneriella subcapitata (green algae), EC50, 72 96 h, 5,7 mg/l

Persistence and degradability

Abiotic degradation

Air, t 1/2 ca. 2.6 d

Result: The product can be degraded by abiotic (e.g. chemical or photolytic) processes.

Water, t 1/2 (Hydrolysis) ca. 120 h

Result: Chemical degradation

Soil, < 99 %, 0.5 h

Result: Chemical degradation (1 % solution)

Biodegradation

· aerobic, Tested according to: Closed Bottle test, ca. 56 % after 28 d

Result: Not biodegradable

aerobic, Tested according to: ready biodegradability/MITI, from 2 mg/l, > 70 % after 28 d

Result: Readily biodegradable.

Effects on waste water treatment plants, 90 mg/l

Result: inhibitory action

Effects on waste water treatment plants

BOD increase of treated effluent by acetic acid formation

Bioaccumulative potential

log Pow -1,25, calculated value,

Result: Does not bioaccumulate.

Mobility in soil

Water

Solubility(ies), Mobility

· Soil/sediments, log KOC:0,63

non-significant adsorption

· Air, Volatility, Henry's law constant (H), 0,22 hPa.m³/mol

not significant

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

- Contact manufacturer.
- Contact waste disposal services.



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· In accordance with local and national regulations.

Contaminated packaging

- · 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

UN number UN 3109 Class 5.2

Labels 5.2 - Organic peroxide

8 - Corrosive

Proper shipping name ORGANIC PEROXIDE TYPE F, LIQUID(PEROXYACETIC ACID,

TYPE F, STABILIZED)

· IMDG

UN number UN 3109 Class 5.2

Labels 5.2 - Organic peroxide

8 - Corrosive

HI/UN No. 3109 EmS F-J S-R

Proper shipping name ORGANIC PEROXIDE TYPE F, LIQUID(PEROXYACETIC ACID,

TYPE F, STABILIZED)

· ADR

UN number UN 3109 Class 5.2

Labels 5.2 - Organic peroxide

8 - Corrosive

HI/UN No. 539 / 3109

Proper shipping name ORGANIC PEROXIDE TYPE F, LIQUID(PEROXYACETIC ACID,

TYPE F, STABILIZED)

· RID

UN number UN 3109 Class 5.2

Labels 5.2 - Organic peroxide

8 - Corrosive

HI/UN No. 539 / 3109

Proper shipping name ORGANIC PEROXIDE TYPE F, LIQUID(PEROXYACETIC ACID,

TYPE F, STABILIZED)



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· ADN

UN number UN 3109 Class 5.2

Labels 5.2 - Organic peroxide

8 - Corrosive

Proper shipping name ORGANIC PEROXIDE TYPE F, LIQUID(PEROXYACETIC ACID,

TYPE F, STABILIZED)

15. REGULATORY INFORMATION

Applicable Laws or Regulations

- Expert judgement
- Safety Occupational Health and Environmental in Work Place B.E 2554, Jan 2011
- Notification of Ministry of Industry: List of Hazardous Substances B.E. 2538
- Hazardous Substances Prohibited from On-line Notification System Notification of Ministry of Industry, B.E.
 2547

Notification status

Inventory Information	Status
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
Inventory of Existing Chemical Substances (China) (IECS)	In compliance with inventory
Philippine. Inventory of Chemicals and Chemical Substances (PICCS)	In compliance with inventory
New Zealand. Inventory of Chemicals (NZIOC)	In compliance with inventory

16. OTHER INFORMATION

Full text of H-Statements referred to under section 3

H226		Flammable liquid and vapour.
H242		Heating may cause a fire.
H271		May cause fire or explosion; strong oxidiser.
H302	12	Harmful if swallowed.
H312	>	Harmful in contact with skin.
H314		Causes severe skin burns and eye damage.
H332		Harmful if inhaled.
H335	3	May cause respiratory irritation.
H400	*	Very toxic to aquatic life.
H401	9	Toxic to aquatic life.
H412	×	Harmful to aquatic life with long lasting effects.

Other information

Update

This data sheet contains changes from the previous version in section(s): 3

Distribute new edition to clients

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



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observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and the environment.

