Material Safety Data Sheet

Peracetic acid 5% (RXSOL-15-1267-005)

1. Product and Company Identifaction

Product Name	Peracetic Acid 5%
Part Number	RXSOL-15-1267-005

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Gandhidham, Kolkata, Visakhapatnam, Chennai, Fujairah

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Synonyms : Peroxyacetic acid, Acetyl Hydro peroxide

Molecular formula : C2H4O3 / CH3COOOH

Contains no hazardous ingredients according to GHS.

3. Hazards Identification

Classification of the substance or mixture
This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Emergency Overview

Form	:	Liquid
Physical state	:	Liquid
Color	:	colorless
Odor	:	pungent
OSHA Hazards	:	No OSHA Hazards
Classification	:	Not a hazardous substance or mixture.
Labeling	:	Not a hazardous substance or mixture.

Carcinogenicity:

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

4. First Aid Measures

General advice :

If inhaled : Remove from exposure, lie down .Keep warm. Oxygen or artificial respiration if needed.Obtain medical attention

In case of skin contact : Wash off immediately with plenty of water removing all contaminated clothes and shoes.If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water for at least 15 minute and seek medical advice.

If swallowed : Rinse mouth with water .Drink plenty water .Do not induces vomiting .Call a physician immediately

5. Fire-fighting Measures

Flash point : > 89 ^{O}C

Autoignition temperature : 395 ^{O}C

Special protective equipment for fire-fighters : Wear a safe contained breathing apparatus, suit protecting against chemicals.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment..

Fire and explosion protection : Water, spray. Do not use dry chemical powder type.

Hazardous decomposition products : Contact with combustible material. May cause fire. Heating >110 ^{O}C may cause an explosion.

6. Accidental Release Measures

Environmental precautions : Prevent product from entering drains, into the environment.

Methods for cleaning up : Dam up. Flush very dilute solution into sewer with plenty of water .Contact the proper local authorities. Never return spills in original container of reuse.

7. Handling and Storage

Handling

Advice on safe handling : Never return unused material to storage receptacle. Avoid exposure. Provide appropriate exhaust ventilation. Ware suitable protective clothes. Open drum/container carefully .Content may be under pressure.

Advice on protection against fire and explosion : Keep away from sources of ignition .No smoking .Keep away from combustible material. Protect from Contamination .Do not heat over + 30 ^{O}C

Storage

Requirements for storage areas and containers : Keep in a cool, well-ventilated plate .keep away from heat, direct sunlight and sources of ignition .Store in original container equipped with a vent. Don’t keep more than 12 months.

Advice on common storage.

8. Exposure controls and personal protection

Engineering measures

Provide mechanical local exhaust ventilation to prevent release of mist into the work area. If release use respiratory protection.

Exposure limits :

ChemicalName	ACGIH(TLV)	OSHA(PELs)	Supplier
Hydrogen Peroxide	1 ppm (TWA) = 1.4 mg / m3	1 ppm (TWA) = 1.4 mg / m3	
Acetic Acid	10 ppm (TWA) = 25 mg / m3 15 ppm (STEL) = 37 mg / m3	10 ppm (TWA) = 25 mg / m3	

Peracetic Acid	-	-	0.15 ppm (TWA) = 0.46 mg / m3

ACGIH (TLV) = ACGIS & TLV are registered trademarks of The American Conference of Governmental

Industrial Hygienists OSHA (PELs) = Standard of The Occupational Safety and Health Administration

Personal protective equipment

Respiratory protection : In case of insufficient ventilation ware suitable respiratory equipment (filter type B/P3)

Hand protection : Butyl /viton groves. Do not wear leather gloves; do not ware cotton gloves (risk of fire)

Eye protection : Tightly fitting safety goggles and face-shield .Eye wash bottle with pure water.

Skin and body protection : Full protective chemical resistant clothing ,Do not wear leather shoes, Safety shower

Hygiene measures : Avoid exposure.



Gloves



Suit

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form	:	Liquid
Physical state	:	Liquid
Color	:	colorless
Odor	:	pungent
Flash point	:	> 89 ^{O}C
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Oxidizing properties	:	Strong oxidizing
Autoignition temperature	:	No data available
Thermal decomposition	:	No data available
Molecular formula	:	C2H4O3 / CH3COOOH
Molecular weight	:	76
PH	:	1.0 – 2.0
Pour point	:	No data available
Boiling point/boiling range	:	105 ^{O}C
Vapor pressure	:	22 mm Hg @ 25 ^{O}C
Relative density	:	No data available
Water solubility	:	completely soluble (100% @ 25 ^{O}C)
Partition coefficient: n-octanol/water	:	Acetic acid log P ow = -0.17 Peracetic acid log P ow = -0.924
Viscosity, kinematic	:	No data available
Relative vapor density	:	No data available
Evaporation rate	:	> 1
Percent volatile	:	No data available

10. Stability and reactivity

Possibility of hazardous reactions

Conditions to avoid : High temperatures. Protect from light .Keep away from heat, contamination.

Materials to avoid : Combustible material, flammable materials, reducing agents, organic material metal chlorides, bases, contamination, rust, dirt.

Thermal decomposition : No data available

Hazardous decomposition products : Heating release irritative and acrid gases.

Other data : No decomposition if stored and applied as directed.

11. Toxicological information

Acute toxicity :

Peracetic acid : LD 50 / oral/ rat = 652 mg / kg

LD 50 / dermal/rabbit = >200 mg / kg

LC 50 / inhalation / 1 hour/ rat = 590 mg /m3

Ingestion causes burns of the upper digestive tracts and gastrointestinal burns. Inhalation of aerosols may cause irritation to mucous membranes, inflammation, and edema of the lungs

Primary irritation : Causes sever burns.

Sensitisation : no data available

Long term toxicity : no data available

12. Ecological information

Persistence and degradability : Depending on circumstance, degradable

Bioaccumulation : Does not accumulation

Mobility : no data available

Ecotoxicity effects

Acetic acid :	LD 50 / 96hrs. / fathead minnows	= 88 mg/l
	LD 50 / 96 hrs./ Blugill sunfish	= 75 mg/l
	LD 50 / 24 hrs. / daphnia	= 47 mg/l
Peracetic acid :	LD 50 / 96 hrs. / rainbow trout	= 10-18 mg/l (12%)
	Very toxic to aquatic organism	
Hydrogen Peroxide :	LD 50 / 96 hrs./ Golden orfe	= 35 mg/l
	LD 50 / 168 hrs. / fathead minnows	= 22-33 mg/l
	LD 50 / 96 hrs./ rainbow trout	= 38.5 mg/l
	EC 50 / daphnia	= 2.4-7.7 mg/l
	LC 50 / algae > 1.7 mg/l	

13. Disposal considerations

Contaminated packaging : In accordance with local and national regulations. Rinse empty container with water before disposal .Do not reuse empty container for other purposes.

Waste from residue /unused product : In accordance with local and national regulations, see also accidental release measures. Wear personal protective equipment. Diluted aqueous solution can be disposed as waste water, when in compliance with local regulations. Do not dispose of undiluted solutions into sewer.

14. Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (United States Department Of Transportation)
Not regulated as a hazardous material or dangerous goods for transportation by this agency.

IMO / IMDG (International Maritime Dangerous Goods)
Not regulated as a hazardous material or dangerous goods for transportation by this agency.

IATA (International Air Transport Association)
Not regulated as a hazardous material or dangerous goods for transportation by this agency.

ADR (Agreement On Dangerous Goods By Road (Europe))
Not regulated as a hazardous material or dangerous goods for transportation by this agency.

RID (Regulations Concerning The International Transport Of Dangerous Goods (Europe))
Not regulated as a hazardous material or dangerous goods for transportation by this agency.

ADN (European Agreement Concerning The International Carriage Of Dangerous Goods By Inland Waterways)
Not regulated as a hazardous material or dangerous goods for transportation by this agency.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

National legislation

SARA 311/312 Hazards : No SARA Hazards

CERCLA Reportable Quantity : This material does not contain any components with a CERCLA RQ.

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Ingredients : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):
Polypropylene Glycol - 25322-69-4

US State Regulation

Pennsylvania Right To Know	:	No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know	:	No components are subject to the New Jersey Right to Know Act.
California Prop. 65 Ingredients	:	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects. WARNING! This product contains a chemical known in the State of California to cause cancer. Propylene oxide
Europe REACH	:	On the inventory, or in compliance with the inventory

United States of America TSCA	:	On TSCA Inventory
Canada DSL	:	All components of this product are on the Canadian DSL.
Australia AICS	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea KECI	:	On the inventory, or in compliance with the inventory
Philippines PICCS	:	On the inventory, or in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory

16. Other information

NFPA Classification : Health Hazard: 3
Fire Hazard: 1
Stability: 2

Special Precautuion: H

NFPA Ratings Legend :

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

Protection =H (Sefty goggles. gloves, apron, the use of supplied air or SCBA Respirator is Requred in lieu of a vapor cartidge respiroator)

Further information

The information provided in this safety data sheet is correct to the best our knowledge at the data of its publication. The information given is designed only as guidance for safe handing use processing storage, transportation disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operations mentions are beyond our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text .RX Marine International . Disclaims any liability for loss or damage resulting from the use these data ,information or suggestions

==========