

Safety Data Sheet

PAA 67**1. IDENTIFICATION**

Product Identifier: PAA 67
Canadian TDG: UN3098
Synonyms: None known
Chemical Family: None known
Recommended Use: Cleaning Product
Restrictions on Use: None

Manufacturer / Supplier:

Genesis Chemicals
1451 Highway Ave SE
Redcliff, AB
T0J 2P0

Prepared by: The Environmental, Health and Safety Department of Genesis Chemicals Ltd

Preparation Date of SDS: February 1, 2020

Telephone number of Preparer: 403-528-4220

24-Hour Emergency Telephone Number (CANUTEC): (613) 996-6666

2. HAZARDS IDENTIFICATION**GHS Classification**

Oxidizing Liquid – Category 2; Organic peroxide – Type 4; Corrosive to metals – Category 1; Acute toxicity (Oral) – Category 5; Acute toxicity (Inhalation) – Category 5; Skin corrosion – Category 1; Serious eye damage – Category 1



Signal Word: Danger

Hazard Statement(s):

Heating may cause a fire
May intensify fire; oxidizer
May be corrosive to metals
May be harmful if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage
May be harmful if inhaled

Precautionary Statement(s):

General:

Keep out of reach of children.
Read label before use.

Prevention:

Take any precaution to avoid mixing with combustibles.
Wear fire/flammable resistant or retardant clothing.
Keep or store away from clothing or other combustible material.
Wash hands, face and any exposed skin thoroughly after handling.
Wear protective gloves, protective clothing, eye protection and face protection.
Do not breathe dusts or mists.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Drink a glass of water. Get immediate medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Take off contaminated clothing and wash before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Other Hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %
Hydrogen Peroxide	7722-84-1	10-30
Acetic acid	64-19-7	5-15
Peroxyacetic acid	79-21-0	5-10

Notes

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First-aid Measures**Inhalation**

Move to fresh air. Keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor if you feel unwell or are concerned.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation or a rash occurs, get medical advice/attention.
Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Ingestion

Immediately call a Poison Centre or doctor. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: at high concentrations symptoms may include headache, nausea, dizziness, drowsiness and confusion.
If on skin: may cause an allergic skin reaction in some people. Symptoms include redness, rash, itching and swelling.
If in eyes: symptoms include sore, red eyes, and tearing.
If swallowed: may be drawn into the lungs if swallowed or vomited, causing severe lung damage. Symptoms may

include coughing, shortness of breath, difficult breathing and tightness in the chest.

Immediate Medical Attention and Special Treatment

Special Instructions

Hydrogen peroxide at this concentration is a strong oxidant. Direct contact with the eye is likely to cause corneal damage especially if not washed immediately. Careful ophthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered. Because of the likelihood of corrosive effects on the gastrointestinal tract after ingestion, and the unlikelihood of systemic effects, attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided. There is a remote possibility, however, that a nasogastric or orogastric tube may be required for the reduction of severe distension due to gas formation.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Water fog, carbon dioxide, appropriate foam. Use flooding quantities of water spray or fog. Use water to keep non-leaking, fire-exposed containers cool.

Special Exposure Hazards

Strong oxidizer. Contact with combustible materials may cause a fire. Release of oxygen may support combustion. Contact with incompatible materials (e.g. metals, alkalis and reducing agents) will cause hazardous decomposition resulting in the release of large quantities of heat, steam and oxygen gas. Exposure to heat may cause hazardous decomposition. A severe detonation hazard may exist when mixed with organic liquids, e.g. kerosene or gasoline. Isolate and restrict area access. Fight fire from a safe distance and from a protected location. Stay upwind. Stop leak only if safe to do so. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up which could result in container rupture.

Hazardous Decomposition/Combustion Materials (under fire conditions)

Oxygen. Steam.

Special Protective Equipment

Fire fighters should wear full protective clothing, including self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Concentrated product: evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Distant ignition and flashback are possible.

Increase ventilation to area or move leaking container to a well-ventilated and secure area. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Before entry, especially into confined areas, check atmosphere with an appropriate monitor. Monitor area for flammable or explosive atmosphere.

Product (diluted as directed): use the personal protective equipment recommended in Section 8 of this safety data sheet. No other special precautions are necessary.

Environmental Precautions

Concentrated product: do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Concentrated product: small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Do NOT use combustible materials such as sawdust. Place used absorbent into suitable, covered, labelled

containers for disposal.

Concentrated product: large spills or leaks: cover the spill surface with the appropriate type of foam to reduce the release of vapour. Dike spilled product to prevent runoff. Remove or recover liquid using pumps or vacuum equipment. Dike and recover contaminated water for appropriate disposal. Store recovered product in suitable containers that are: tightly-covered.

Product (diluted as directed): no special clean-up methods are necessary.

Other Information

Report spills to local health, safety and environmental authorities, as required.

7. HANDLING AND STORAGE

Handling: For food plant and other industrial use only. Handle and open containers with care. Never touch eyes of face with hands or gloves that may be contaminated with this product. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

Storage: Do not store near combustible materials. Store in a cool, dry, well ventilated area. Keep containers tightly closed. Do not store this material in containers made of light metals. Recommended container materials: glass, polyvinyl chloride, polyethylene, ceramics, polypropylene. Use adequate venting devices on all packages, containers and tanks and check correct operation periodically. Do not confine product in unvented vessels or between closed valves. Risk of overpressure and bursting due to decomposition in confined spaces and pipes. Do not store on wooden floors or wooden pallets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ingredients	ACGIH® TLV®	OSHA PEL	IDLH
Hydrogen Peroxide	1 ppm TLV-TWA	1 ppm TWA 1.4 mg/m ₃ TWA	75 ppm
Acetic acid	10 ppm TLV-TWA 15 ppm TLV-STEL	10 ppm TWA	
Peroxyacetic acid	0.4 ppm A4 TLV –STEL	Not established	

Consult local authorities for provincial or state exposure limits.

Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists. When handling large quantities of concentrated product: use a local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Do not get in eyes. Wear chemical safety goggles.

Skin Protection

Prevent all skin contact. Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: Barrier® (PE/PA/PE), Silver Shield/4H® (PE/EVAL/PE), Tychem® Responder, Tychem® TK.

The following materials should NOT be used: neoprene rubber, nitrile rubber, polyvinyl alcohol.

Respiratory Protection

Not normally required if product is used as directed.

Concentrated product: wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an organic vapour Cartridge, or, wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

9. CHEMICAL AND PHYSICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear liquid.
Odour	Acidic
Odour Threshold	Not available
pH	2.8 (1% solution)
Melting Point/Freezing Point	Not available
Initial Boiling Point/Range	Not available
Flash Point	93°C /200°F
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	22.0 mm Hg (2.9 kPa)
Vapour Density (air = 1)	Not available
Relative Density (specific gravity)	~1.0911
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Other Information	
Physical State:	Liquid

10. STABILITY AND REACTIVITY

Chemical Stability

Stable.

Hazardous Polymerization

Will not occur.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Contact with combustible materials. Incompatible materials.

Materials to Avoid

Strong bases. Avoid dirt, alkali, organic compounds, leather, paper, wood and heavy metals.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; corrosive sulfur oxides; oxygen.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Chemical Name	LC50	LD50 (Oral)	LD50 (Dermal)
Hydrogen Peroxide	2 mg/L (rat) 4hr	1193 mg/kg (rat)	Not available
Acetic acid	11.4 mg/L (rat) 4hr	3530 mg/kg (rat)	1060 mg/kg (rabbit)
Peroxyacetic acid	0.204 mg/L (rat) 4hr	1540 mg/kg (rat)	1275 mg/kg (rabbit)

Skin Corrosion/Irritation

May cause severe skin burns.

Serious Eye Damage/Irritation

May cause serious eye damage.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not classified.

Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited. Symptoms may include coughing, choking, shortness of breath, difficult or rapid breathing, and wheezing.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Not classified.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer.

Skin sensitizer. May cause an allergic reaction (skin sensitization) based on information for closely related chemicals.

Carcinogenicity

Chemical Name	IARC	ACGIH	NTP	OSHA
Hydrogen Peroxide	Group 3	A3	Not listed	Not listed
Acetic acid	Not listed	Not designated	Not listed	Not listed
Peroxyacetic acid	Not listed	A4	Not listed	Not listed

Reproductive Toxicity

Development of Offspring / Sexual Function and Fertility

It is not possible to conclude that hydrogen peroxide is mutagenic. Positive results have been obtained in cultured humans cells. Negative results have been obtained in relevant studies using live animals. Positive results have been obtained in short-term mutagenicity tests.

Germ Cell Mutagenicity

Not mutagenic.

Interactive Effects

No information was located.

Additional Information

No information was located.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Hydrogen Peroxide	LC50 (48 hr) carp: 42 mg/L; LC50 (96 hr) fish: 37.4 mg/l	EC50 (24 hr) Daphnia: 7.7 mg/l	NOEC (72 hr) Algae : 0.1 mg/l

Other Information:

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Spill areas must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life. Biodegrades (slow). Rapid volatilization. Not expected to bioconcentrate.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

Burn in an approved incinerator according to federal, provincial/state, and local regulations.

Empty containers retain product residue. Follow label warnings even if container appears to be empty. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: OXIDIZING LIQUID, CORROSIVE (Hydrogen peroxide, Peroxyacetic acid)

DOT Hazardous Class 5.1 (8)

DOT UN Number: UN3098

DOT Packing Group: II

DOT Reportable Quantity (lbs): Not Available.

Marine Pollutant: No.

TDG (Canada):

TDG Shipping Name: OXIDIZING LIQUID, CORROSIVE (Hydrogen peroxide, Peroxyacetic acid)

Hazard Class: 5.1 (8)

UN Number: UN3098

Packing Group: II

Marine Pollutant: No.

Special Precautions for User

Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

Canada**WHMIS Classification**

C OXIDIZING MATERIALS

D1B TOXIC MATERIALS

E CORROSIVE MATERIAL

F DANGEROUSLY REACTIVE MATERIAL

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

16. OTHER INFORMATION

Additional Information: This product has been classified in accordance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and the SDS contains all the information required by the Hazardous Products Regulations (HPR).

Prepared by: The Environmental, Health and Safety Department of Genesis Chemicals Ltd

Date of Latest Revision: November 8, 2021

Key to Abbreviations: IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A4 = Not classifiable as a human carcinogen. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration. ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. A4 = Not classifiable as a human carcinogen. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. IDLH = Immediately Dangerous to Life and Health.

Disclaimer: NOTICE TO READER:
Genesis Chemicals Ltd expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Genesis Chemicals Ltd Sales Office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Genesis Chemicals Ltd makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Genesis Chemicals Ltd's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

END OF SDS