



Safety Data Sheet (SDS)

No. 10612 Remedia I

SDS Revision Date:

04/28/2015

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity No. 10612 Remedia I
Alternate Names No. 10612

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

Intended use Cleaning compound
Application Method See Label Instructions.

1.3. Details of the supplier of the safety data sheet

Company Name Hill Manufacturing Co., Inc.
1500 Jonesboro Road SE
Atlanta, GA 30315

Emergency

24 hour Emergency Telephone No. (800) 535-5053
Customer Service: Hill Manufacturing Co., Inc. (404) 522-8364

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Ox. Liq. 1;H271	May cause fire or explosion; strong oxidizer.
Acute Tox. 4;H302	Harmful if swallowed.
Acute Tox. 5;H313	May be harmful in contact with skin. (Not adopted by US OSHA)
Acute Tox. 3;H331	Toxic if inhaled.
Skin Corr. 1A;H314	Causes severe skin burns and eye damage.
Eye Dam. 1;H318	Causes serious eye damage.
STOT SE 3;H335	May cause respiratory irritation.
Aquatic Acute 1;H400	Very toxic to aquatic life.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H271 May cause fire or explosion; strong oxidizer.

H302 Harmful if swallowed.

H313 May be harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P220 Keep / Store away from clothing combustible materials.

P221 Take any precaution to avoid mixing with combustibles.
 P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection / face protection.
 P283 Wear fire / flame resistant / retardant clothing.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
 P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
 P306+360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
 P310 Immediately call a POISON CENTER or doctor / physician.
 P311 Call a POISON CENTER or doctor / physician.
 P321 Specific treatment (see information on this label).
 P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P363 Wash contaminated clothing before reuse.
 P370+380+375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
 P371 In case of major fire and large quantities:
 P378 Use alcohol resistant foam, CO2, powder, water spray for extinction. Do not use water jet.
 P391 Collect spillage.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.
 P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Hydrogen peroxide CAS Number: 0007722-84-1	75 - 100	Ox. Liq. 1;H271 Acute Tox. 4;H332 Acute Tox. 4;H302 Skin Corr. 1A;H314	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

Move victim to fresh air.
 Call 911 or emergency medical service if deemed necessary.
 Give artificial respiration if victim is not breathing.
 Administer oxygen if breathing is difficult.
 Remove and isolate contaminated clothing and shoes.
 Contaminated clothing may be a fire risk when dry.
 In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
 Keep victim warm and quiet.
 Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If

Eyes	unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Skin	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Ingestion	Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Shower and wash with soap and water. Keep victim warm and quiet.
4.2. Most important symptoms and effects, both acute and delayed	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
Overview	No specific symptom data available. See section 2 for further details.
Inhalation	Toxic if inhaled.
Eyes	Causes serious eye damage.
Skin	May be harmful in contact with skin. (Not adopted by US OSHA) Causes severe skin burns and eye damage.
Ingestion	Harmful if swallowed.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

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

Keep / Store away from clothing combustible materials.

Take any precaution to avoid mixing with combustibles.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Structural firefighters' protective clothing will only provide limited protection.

These substances will accelerate burning when involved in a fire.

Some may decompose explosively when heated or involved in a fire.

May explode from heat or contamination.

Some will react explosively with hydrocarbons (fuels).

May ignite combustibles (wood, paper, oil, clothing, etc.).

Containers may explode when heated.

Runoff may create fire or explosion hazard.

Inhalation, ingestion or contact (skin, eyes) with vapors or substance may cause severe injury, burns or death.

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Large Spill: Following product recovery, flush area with water.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.

Keep unauthorized personnel away.

Stay upwind.

Keep out of low areas.

Ventilate closed spaces before entering.

Contain, dilute cautiously with water, and neutralize with soda ash or lime.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Metal, glass, stoneware, alkali and strong concentrated acids.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0007722-84-1	Hydrogen peroxide	OSHA	TWA 1 ppm (1.4 mg/m3)
		ACGIH	TWA: 1 ppm
		NIOSH	TWA 1 ppm (1.4 mg/m3)
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0007722-84-1	Hydrogen peroxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

8.2. Exposure controls

Respiratory

Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.

Eyes

Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin

Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical Impervious Gloves

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Colorless Liquid
Odor	No data available.
Odor threshold	Not Measured
pH	1.5-3.5
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	212 deg F
Flash Point	Not Measured
Evaporation rate (Ether = 1)	<1

Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (mmHg)	25
Vapor Density	Heavier than air
Specific Gravity	1.11
Solubility in Water	Complete
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Excessive heat and open flame.

10.5. Incompatible materials

Metal, glass, stoneware, alkali and strong concentrated acids.

10.6. Hazardous decomposition products

When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Hydrogen peroxide - (7722-84-1)	801.00, Rat - Category: 4	2,000.00, Rat - Category: 4	2.00, Rat - Category: 2	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	5	May be harmful in contact with skin. (Not adopted by US OSHA)
Acute toxicity (inhalation)	3	Toxic if inhaled.
Skin corrosion/irritation	1A	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable

STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Very toxic to aquatic life.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Hydrogen peroxide - (7722-84-1)	22.00, Oncorhynchus mykiss	2.32, Daphnia magna	0.71 (72 hr), Microcystis pulverea ssp. incerta

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN2984	UN2984	UN2984
14.2. UN proper shipping name	UN2984, Hydrogen peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary), 5.1, III	Hydrogen peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)	Hydrogen peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)
14.3. Transport hazard class(es)	DOT Hazard Class: 5.1 DOT Label: 5.1	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	III	III	III
14.5. Environmental hazards	IMDG Marine Pollutant: Yes (Hydrogen peroxide)		
14.6. Special precautions for user	No further information		

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act All components of this material are either listed or exempt from listing on the TSCA Inventory.

(TSCA)

WHMIS Classification D1B E C

US EPA Tier II Hazards

Fire: No

Sudden Release of Pressure: No

Reactive: Yes

Immediate (Acute): Yes

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

Hydrogen peroxide

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

N.J. RTK Substances (>1%):

Hydrogen peroxide

Penn RTK Substances (>1%):

Hydrogen peroxide

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H271 May cause fire or explosion; strong oxidizer.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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