



SAFETY DATA SHEET (SDS)

Date Revised : 04 / 15

Supersedes : 02 / 09

GLASS SMART- RTU
LIGHT – DUTY / GLASS CLEANER
STREAK - FREE

MADE FROM AN ENVIRONMENTALLY -
CERTIFIED CONCENTRATE
NO ALCOHOL OR AMMONIA

SECTION 1 : IDENTIFICATION OF SUBSTANCE / COMPANY

PRODUCT NAME / IDENTIFIER :
PRIMARY APPLICATION / RECOMMENDED USAGE :

DISTRIBUTED EXCLUSIVELY BY :

INFORMATION TELEPHONE :
EMERGENCY TELEPHONE (24 hour) :
USAGE RESTRICTIONS :

“ GLASS SMART ” – RTU : Light-duty , All-Purpose and Glass Cleaner < 1% Stabilized Hydrogen Peroxide Solution Peroxide Solution
An effective, Light-duty cleaner for glass surfaces, windows, stainless steel, chrome, polished metal, countertops, ceramic tile, porcelain, or as a light-duty wipe down .Drying agents allow for a streak-free clean. Alcohol and Ammonia- free formula . Color and surface safe. Destroys odors on contact . Derived as a Ready-to-Use (R.T.U.) version of the “GREEN SEAL” (GS-37) Environmentally- certified HydroxiPro #128 -4% (# 256-8%) Multi-tasking Concentrate at the “GREEN” Dilution Level via our Automatic Dispensing System
HEALTHY CLEAN BUILDINGS
4 Wilmington Drive
Melville, New York 11747
1-631-643-1882
CHEMTREC :1-800-424-9300 (ref. : Core)
Refer to Product Label

SECTION 2 : HAZARD(S) IDENTIFICATION

While this product is not considered hazardous , this SDS contains valuable information critical to the safe handling and proper use of the product . This SDS should be made available to users of this product . Prolonged or repeated skin contact in an occupational setting may result in irritation and in these situations, the use of chemical resistant gloves is recommended. This product is not regarded as a mutagen or carcinogen, and there is low concern for reproductive, developmental, or nervous system toxic effects.

Classification of the substance or mixture (GHS-US)

Skin Irritation 2 H315
Eye Damage 1 H318
Skin Sensitivity 1 H317

Label Elements

Hazard Pictograms

(GHS-US Labeling)



Mild Skin & Eye Irritant
Respiratory Tract Irritant

Signal Word :

Warning

Hazard Statements :

H315 – Causes Mild Skin Irritation as a water diluted product .

H317 – May cause an allergic skin reaction .

H318 – May cause serious eye irritation as a diluted product .



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HAZARD (S) IDENTIFICATION (continued)

Precautionary Statements P261 – Avoid breathing dust / mist/ spray .
P264 - Wash hands and forearms thoroughly after handling
P280 – Wear Protective gloves / eye protection
P302 + P352 – If on skin, wash with plenty of soap and water
P305+P351+P338 – If in eyes, rinse cautiously with water for several minutes .
If easy to do, remove contact lenses .Continue rinsing
P337+P313 – If eye irritation persists , get medical advice/attention .
P310 – Immediately call a poison center / doctor .
P321 – Specific treatment (see First Aid Measures on Product Label / SDS)
P332+P313 – If skin irritation occurs, get medical advice / attention
P333+P313 – If skin irritation or rash occurs, get medical advice / attention
P362+P364 – Take off contaminated / soiled clothes and wash before reuse
P501 – Dispose of contents / container in accordance with local / regional/ national / int'l regulations

Other Hazards : None
Ingredients with Unknown Acute Toxicity : Not Established

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS :

Chemical characterization : Mixture
Hazardous Components :

<u>Ingredient :</u>	<u>CAS Number :</u>	<u>Percent :</u>	<u>OSHA / PEL :</u>	<u>ACGIH / TLV :</u>
Hydrogen Peroxide	7722-84-1	< 1%	1.4 mg/m3	1.4 mg/m3
Alcohol Ethoxylate	68131-39-5	< 1%	NE	NE
Orange Oil	8008-57-9	< 0.75 %	NE	NE

NOTE : Approximate percentages – Exact percentages and identities are withheld as trade secrets

SECTION 4 : FIRST AID MEASURES

Description of Necessary Measures :

Relevant Routes of Exposure : Skin Contact , Eye Contact , Ingestion

After Skin Contact : Wash with plenty of mild soap and water ; followed by a warm water rinse . Apply a topical antiseptic agent to open wounds or broken skin . Remove contaminated clothing and shoes . Launder soiled , contaminated clothing before reuse . If skin irritation or rash persists, seek medical attention (P332+P313) .

After Eye Contact : Rinse cautiously with warm running water for 15 minutes , lifting upper and lower lids occasionally .. If easy to do, remove contact lenses .Continue water rinsing . (P 305+P351+P338 If eye irritation persists such as blinking , redness , or pain , seek medical attention . (P337 + P313) .

After Ingestion : Do Not Induce vomiting unless advised by a physician or poison control center . If patient is fully conscious , continue to rinse mouth with water and drink 2-3 glasses of water .If adverse conditions persist , seek medical attention . Never give anything by mouth if victim is unconscious, rapidly losing consciousness , or is convulsing .Call a Poison Control Center / Doctor / Physician, if necessary (P312) .

After Inhalation : Move to fresh air . Keep individual at rest in a position comfortable for breathing .Consult a doctor if adverse conditions persist (P261) .

Note to Physicians : Treat symptomatically .

SECTION 5 : FIRE FIGHTING MEASURES :

Suitable Extinguishing Media : Water Fog, Alcohol Foam, Dry Chemical

Unsuitable Extinguishing Media : None

Flammability : Not Flammable (Aqueous Solution)

Flashpoint (°F, °C , PMCC) : > 212°F

Special Protective Equipment for Fire Fighters : Wear self-contained Respiratory Protective Device . Wear fully protective suit .



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SECTION 6 : ACCIDENTIAL RELEASE MEASURES

Ventillate area with fresh air . In case of unusual, excessive chemical fumes, use a respiratory protective device . Exercise caution from slipping on leaked / spilled product .

Leak and Spill Procedure : Collect excess product for disposal . Clean up remaining product from spill with appropriate liquid-binding absorbent (ie : sand, diatomite , universal binders , sawdust) . For large spills , provide diking or other containment measures to prevent spreading . If diked product can be pumped, store recovered product in compatible drums for recovery or disposal . Clean area with warm water several times to prevent any future slip hazards . Observe personal protective equipment recommendations .

Environmental Precautions : Make best efforts to prevent entry into sewers and public waters. Take extreme measures to prevent large quantities of product to reach ground water, water course, or sewage system .

SECTION 7 : HANDLING & STORAGE REQUIREMENTS

KEEP OUT OF REACH OF CHILDREN

Precautions for Safe Handling : Read product literature, label , and SDS before use . Use product strictly according to label directions .

Wash hands and other exposed areas with soap and water before eating, drinking, smoking; or when leaving work . Provide adequate ventilation in storage area to prevent formation of fumes . Avoid personal contamination, especially inhalation , after a spill .

Hygiene Measures : Wash hands and forearms thoroughly after handling . Launder soiled, contaminated clothing before re-use .

Safe Storage Conditions : Keep in original container in a cool , well-ventilated place away from open flames . Keep container closed when not in use .

Incompatible Products : Caustic Alkalis or Caustic Acids

Incompatible Circumstances : Sources of Ignition (ie ; open flames) . Direct sunlight .

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Health & Safety Accreditation : Derived from a  NSF Accredited concentrate .

This diluted, finished product used as per label directions is not considered to be a harmful in the workplace .

Workplace Control Parameters : Hydrogen Peroxide, Concentrate=35%, Aqueous Solution (7722-84-1)

USA ACGIH TWA (ppm) 1 ppm

USA ACGIH STEL (ppm) 1 ppm

Engineering Controls : Adequate general ventilation

Personal Protective Equipment : Avoid unnecessary exposure

Respiratory Protection : May not be required under normal conditions of use . Wear appropriate mask or respiratory protective device when misted or fogged . For unplanned spills, respiratory protection may be advisable .

Skin / Hand Protection : Wear chemical –resistant gloves (ie : rubber, nitrile rubber, neoprene) . For skin and body protection , usually no protective clothing is required under normal ,stable conditions . Under unusual, unstable conditions , wear appropriate protective clothing .

Eye Protection : Wear chemical goggles, safety glasses , or full face shield .

Other Information : DO NOT eat, drink, or smoke during use .

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

pH (as is) : 6.0-6.5

Freezing Point : < 32 °F, < 0 °C

Solubility in Water : 100 % Miscible

Explosive Limits : Undetermined

Partition coefficient : (n-octanol/water) Undetermined

Specific Gravity (Water = 1) : @ 68 °F (20 °C) : 1.01

Color : Clear - Amber

Relative Evaporation Rate (butyl acetate=1) : NA

Boiling Point : >212 ° F

Evaporation Rate (Ethyl Ether=1 : >1

Vapor Pressure : Undetermined

Auto-ignition Temperature : Undetermined

Odor : Citrus

Melting Point : Undetermined

Flashpoint : ≥200 ° F

Flammability : NA

Relative Density : Undetermined

Decomposition Temp. : Undetermined



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TOXOLOGICAL INFORMATION (continued)

Hydrogen Peroxide, 30% Aqueous Solution (continued)

Carcinogenicity : CAS# 7722-84-1 (30% Aqueous Solution) :

Oral, mouse: TDLo = 622 gm/kg/2Y (continuous).

ACGIH : A3 - Animal carcinogen;

IARC : IARC Group 3 - Not classifiable

NTP : Not listed

Epidemiology : No human information available.

Teratogenicity : No human information available.

Reproductive Effects : No human information available.

Neurotoxicity : No information available.

Mutagenicity : CAS#: 7722-84-1 (30%) Mutation in microorganisms: S. typhimurium = 4400 umol/plate.; Hyman, embryo = 50 umol/L.;

Cytogenetic Analysis: Human, embryo = 20 umol/L. Mutation in Mammalian Somatic Cells: Hamster, lung = 1 mmol/L.

Hydrogen Peroxide , Concentrate=35% Aqueous Solution (7722-84-1)

AIRC Group : 3 – Not Classifiable

Alcohol Ethoxylate (cas # 68131-39-5) :

Product / Ingredient Name :	Result :	Species :	Exposure :
Alcohol Ethoxylate (cas # 68131-39-5)	LD 50 Acute Dermal	Rabbit	> 2000 mg/kg
	LD 50 Acute Oral	Rat	> 2000 mg/kg

<http://www.stepan.com/msds/00322400.pdf>

Alcohol Ethoxylate (cas # 68131-39-5) : (continued)

Sensitization : Not classified.

Acute effects : May be harmful if swallowed. May irritate skin after prolonged exposure .

Carcinogenicity : This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Mutagenicity : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive effects : This product is not expected to cause reproductive or developmental effects.

(+) – limonene (5989-27-5) :

Product / Ingredient Name :	Result :	Species :	Exposure :
limonene – cas # 5989-27-5 : (orange oil)	LD 50 (oral)	Rat	4400 mg/kg body weight ; (Rat : OECD 423 ; Acute Oral Toxicity – Acute Toxic Class Method ; Literature Study ; > 2000 mg / kg bodyweight ; Rat ; Read-across)
	LD 50 (dermal)	Rabbit	> 5000 mg / kg body weight (Rabbit ; Weight of Evidence; Equivalent or similar to OECD 402)
	ATE US (oral)		4400.00000000 mg / kg body weight

file:///C:/Documents%20and%20Settings/Stan/My%20Documents/Downloads/(en-GB)068073_1.00.pdf



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TOXOLOGICAL INFORMATION (continued)

(+) – limonene -- cas # 5989-27-5 : (continued)


Skin Corrosion / Irritation	: Causes Skin Irritation @ pH: 4-5
Serious Eye Damage / Irritation	: Causes Serious Eye Damage @ pH: 4-5
Respiratory or Skin Sensitization	: May Cause an Allergic Skin Reaction
Germ Cell Mutagenicity	: Not Classified

(+) – limonene (5989-27-5) :
AIRC Group

3 – Not Classifiable

Aspiration Hazard	: Not Classified
Potential Adverse Human Health Effects & Symptoms	: Based on Available Data, the Classification Criteria are not met
Symptoms / Injuries After Inhalation	: May Cause Allergic Skin Reaction
Symptoms / Injuries After Skin Contact	: After Prolonged Exposure, May Cause Serious Skin Irritation
Symptoms / Injuries after Eye Contact	: After Prolonged Exposure, May Cause Serious Eye Damage

SECTION 12 : ECOLOGICAL INFORMATION

ENVIRONMENTAL ACCREDITATION : Derived from a  **Green Seal Certified -- concentrated product .**

This diluted , finished product used as per label directions is not considered to be a harmful to human life or the environment .

ECOTOXICITY :

Aquatic Toxicity :

*** Hydrogen Peroxide , Concentrate=35% Aqueous Solution (7722-84-1) :**

- .EC50 Water Flea2.4 mg/ l (48h (fresh water). = Concentrate=30% Aqueous Solution (7722-84-1)
- *LC50 Fish 116.4 mg/ l (96 h; Pimephales Promelas)
- .LC50 Carp 42 mg/ l (48 h = Concentrate=30% Aqueous Solution (7722-84-1)
- .LC50 Channel Catfish 37.4 mg/ l (96h = Concentrate=30% Aqueous Solution (7722-84-1)
- .LC50 Fathead Minnow16.4 mg/ l (96h (fresh water) = Concentrate=30% Aqueous Solution (7722-84-1)
- *EC50 Daphnia 1 2.4 mg/ l (48 h; Daphnia Pulex ; Solution >= 50%)
- *EC50 Other Aquatic Organisms 12.5 mg/ l (72 h, Chlorella Vulgaris)
- *LC50 Fish 237.4 mg/ l (96 h; Ictalurus Punctatus)
- *EC50 Daphnia 2 7.7 mg/ l (24 h; Daphnia Magna ; Solution >= 50%)
- *Threshold Limit Algae 10.1 mg/ l (72 h, Chlorella Vulgaris)

Alcohol Ethoxylate , Concentrate=>90% (68131-39-5) :

- EC50 Algae10 - 100 mg/ l (72 h = Concentrate=>90% (68131-39-5)
- EC50 Daphnia 5 - 10 mg/ l (48 h = Concentrate=>90% (68131-39-5)
- LC50 Fish : 5 - 10 mg/ l (96 h = Concentrate=>90% (68131-39-5)

NOTE : Over prolonged exposure periods , Alcohol Ethoxylate , Concentrate=>90% (68131-39-5)
may be toxic to aquatic life with long lasting effects .



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ECOLOGICAL INFORMATION : (continued)

(+) – limonene (5989-27-5) :

LC50 Fish 1	720 mg/l (96 h; Pimephales Promelas ; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia Magna; GLP)
LC50 Fish 2	702 mg/l (96 h; Pimephales Promelas)
Threshold Limit Algae 1	150 mg/l (72 h, Desmodesmus Subspicatus ; GLP)
Threshold Limit Algae 2	2.62 mg/l (72 h, Desmodesmus Subspicatus)

“ Glass Smart ” as a finished product :

Persistence and DegradabilityNot Established

PERSISTENCE AND DEGRADABILITY :

Hydrogen Peroxide , Concentrate=35% Aqueous Solution (7722-84-1) :

Persistence and Degradability	Biodegradability : Not Applicable . No test data on mobility of the components available.
.....	Photolysis in air .
Biochemical Oxygen Demand (BOD)	Not Applicable
Chemical Oxygen Demand (COD)	Not Applicable
ThOD	Not Applicable
BOD (% of ThOD)	Not Applicable

Alcohol Ethoxylate , Concentrate=>90% (68131-39-5) :

Persistence / degradability : Readily biodegradable.
Bioaccumulation / Accumulation : ND

(+) – limonene (5989-27-5) :

Persistence and DegradabilityReadily Biodegradable in Water . Forming Sediments n Water . Absorbs into Soil .
ThOD3.29 g O2 /g Substance

BIOACCUMULATIVE POTENTIAL :

“ Glass Smart ” as a finished productNot Established

Hydrogen Peroxide , Concentrate=35% Aqueous Solution (7722-84-1)

Log Pow-1.36
Bioaccumulative PotentialBioaccumulation : Not Applicable

(+) – limonene (5989-27-5) :

BCF Fish 1864.8 – 1022 (Pisces; Fresh Weight)
Log Pow4.38 (Experimental Value :) OECD 117 : Partition Coefficient (n-octanol/water ; HPLC Method 37 ° C)
Bioaccumulative Potential4 ≥ Log Kow ≤ 5

TERRESTRIAL TOXICITY (“ Glass Smart ”) :No Additional Information Available

MOBILITY IN SOIL (“ Glass Smart ”) :No Additional Information Available

OTHER ADVERSE EFFECTS :

Effect on Ozone Layer (“ Glass Smart ”)No Additional Information Available
Effect on Global Warming (“ Glass Smart ”)No Additional Information Available



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SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations : Dispose in safe manner in accordance with local / state/federal regulations . Dispose of contents / container in accordance with local/regional/national/ international regulations . Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities while adhering to the necessary regulations .
Ecology – Waste Materials : Avoid release into environment .
Recommended Cleansing Agents : Water Only

SECTION 14 : TRANSPORT INFORMATION

US Department of Transportation (DOT) “ Glass Smart ” as a finished product : Not Regulated
Water Transportation (IMO) “ Glass Smart ” as a finished product : Not Regulated
Air Transportation (IATA) “ Glass Smart ” as a finished product : Not Regulated
Hydrogen Peroxide , Concentrate=40% Aqueous Solution (7722-84-1)
UN Number (DOT, IMDG, IATA) UN 2014
UN Proper Shipping Name (DOT, IMDG, IATA) Hydrogen Peroxide Aqueous Solution
Transport Hazard Class(es) (DOT, IMDG, IATA) 5.1-8 Oxidizer / Corrosive (@ 40%) / Unknown (@ 4 %)
Packing Group (DOT, IMDG, IATA) II (@ 40%) / Unknown (@ 4 %)
Environmental Hazards : Marine Pollutant (Yes/No)NO
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code...Not Applicable
Shipping Restrictions : Air forbidden for concentration greater than 40 %
For concentrations under 40 % : Passenger Aircraft – 1 L Max. pkg. / Cargo Aircraft Only – 5 L Max. pkg.

SECTION 15 : REGULATORY INFORMATION

Safety, Health, and Environmental Regulations/Legislation specific for the substance or mixture .
SARA 313 : (“ Glass Smart ”) as a Ready-to-Use finished product) : No reportable ingredients at existing percentages .
UNITED STATES (USA)
SARAH Section 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302 :
Hydrogen Peroxide (CAS# 7722-84-1) -- Revision Date : 1993-04-24
SARAH Section 313 Components 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 .
TSCA (Toxic Substances Control Act).....All Ingredients are Listed
NTP (National Toxicity Program) (“ Glass Smart ”) : None of the Ingredients are listed
Toxicity IARC (International Agency for Research on Cancer) Hydrogen Peroxide Concentrate –cas # : 7722-84-1 (@ 35 % Aqueous Solution)
OSHA (Occupational Safety and Health Administration) (“ Glass Smart ”) : None of the Ingredients are listed
Pennsylvania Right-to-Know Components : Water (CAS# 7732-18-5) // Hydrogen Peroxide (CAS# 7722-84-1) -- Revision Date : 1993-04-24
Massachusetts Right-to-Know Components : Water (CAS# 7732-18-5) // Hydrogen Peroxide (CAS# 7722-84-1) -- Revision Date : 1993-04-24
Proposition 65 (California) : This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm .
Chemicals Known to Cause CancerIngredients are Not Listed
Chemicals Known to Cause Reproductive Toxicity for Females Ingredients are Not Listed
Chemicals Known to Cause Reproductive Toxicity for Males Ingredients are Not Listed
Chemicals Known to Cause Developmental ToxicityIngredients are Not Listed
Carcinogenic Categories :
EPA (Environmental Protection Agency)Ingredients are Not Listed

International Regulations :
CANADA , EU-REGULATIONSNo Additional Information Available



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SECTION 16 : OTHER INFORMATION

HMIS Rating		GHS classification ratings order of severity differ from NFPA and HMIS	
HEALTH	0	HMIS/NFPA Hazard Ratings	GHS Hazard Categories
FLAMMABILITY	0	0= Minimal Hazard	Cat 1 ~ Severe Hazard
PHYSICAL HAZARD	0	1= Slight Hazard	Cat 2 ~ Serious Hazard
PERSONAL PROTECTION	B	2= Moderate Hazard	Cat 3 ~ Moderate Hazard
		3= Serious Hazard	Cat 4 ~ Slight Hazard
		4= Severe Hazard	Cat 5 ~ Minimal Hazard

DISCLAIMER : This document is intended to provide a brief summary of our present knowledge and guidance regarding the use of this material . The information set forth herein has been compiled from sources to be dependable and is believed to be accurate as of the date of issuance . This information is offered in good faith by **HEALTHY CLEAN BUILDINGS** and no warranty, expressed or implied, is made . The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices according to product label (and such), or from any hazards inherent in the nature of the product . This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contracted relationship.

Footnotes : CALC-Calculated; COR-Corrosive; CS-Cancer Suspect Agent; EST-Estimated; HMIS-Hazardous Material Identification System; NA-Not Applicable; ND-No Data ; NE – Data Not Established; OX- Oxidizer; PEL-Permissible Exposure Limit; PPI-Personal Protection Index ; STEL-Short Time Exposure Limit; TLV-Threshold Limit Value; TWA-Time Weighted Average