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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 4/26/2018 SDS Revision: 2.5 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name **GRANITE GOLD CLEAN & SHINE** 1.2 Chemical Name: **Aqueous Solution** 1.3 Synonyms GG0047, GG0066, GG0067, GG0076 1.4 Trade Names Granite Gold Clean & Shine (207-006008-1) 1.5 Product Use: Cleaner 1.6 Distributor's Name: Granite Gold, Inc. 1.7 Distributor's Address 9170 Chesapeake Drive, San Diego CA 92123 USA 1.8 Emergency Phone: CHEMTREC +1 (703) 527-3887 / +1 (800) 424-9300 1.9 Business Phone / Fax: Tel: +1 (858) 499-8933 2. HAZARDS IDENTIFICATION Hazard Identification: 2.1 This product is not classified as a HAZARDOUS SUBSTANCE or as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). This product is classified as hazardous according to the OSHA 2012 Hazardous Communication 2012 final rule WARNING! HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. Classification: Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A 2.2 Label Elements: Hazard Statements (H): H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 -Causes serious eye irritation. Precautionary Statements (P): P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves. P301+P312 - IF SWALLOWED: call a POISON CENTER/doctor. P330 - Rinse mouth. 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. Remove contact lenses, if present and easy to do. Continue rinsing. P321 -Specific treatment: see section 4 of this Safety Data Sheet. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persist: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P501 - Dispose of contents/ container to an approved waste disposal plant. Other Warnings: 2.3 In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS. Aqueous solution. KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-STEL CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. TLV STEL TWA STEL PEAK PEL IDLH OTHER % 7732-18-5 ZC0110000 231-191-2 60-100 NA NA NF NF NF NA NA NA WATER NF NF NF NA NA NA 1.0-7.0 NA NA NA NA NA DC 346 (PROPRIETARY) Eye Irrit. 2; H319 67-63-0 NT8050000 200-661-7 0.1-1 400 500 400 500 NF 400 500 2000 400 TWA **ISOPROPANOL** Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 112-34-5 KJ910000 203-961-6 0.1-1 NA NA NF NF NF NA NA NA GLYCOL ETHER DB Eye Irrit. 2; H319 151-21-3 WT1050000 205-788-1 0.1-1 NA NA NF NF NF NA NA NA SODIUM LAURYL SULFATE Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319 RR-38512-6 NA NA 0-0.1 NA NA NF NF NA NF NA NA CITRUS FRAGRANCE (PARFUM) 4. FIRST AID MEASURES First Aid: DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control 4.1 Ingestion: Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to Eyes: ensure complete flushing. If irritation persists, seek immediate medical attention. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek Skin: prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek Inhalation: immediate medical attention. If breathing stops, perform artificial respiration.



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4.2	Effects of Exposure:	Incention	4. FIRST AID MEASURES – cont'		~~		
+.∠	Effects of Exposure:						misto
		<u>Eyes</u> : Skin:	This product can cause transient mild eye irritation with s			iiquiu spiays of	1111515.
		Inhalation:	Exposure may cause respiratory tract irritation in some s		•		
.3	Symptoms of Overexposure:	Skin:	Prolonged contact with skin may result in bleaching and			product can ca	ause allergio
		<u>onun</u> .	skin reactions (e.g., rashes, welts, dermatitis) in so overexposure may include redness, itching, and irritation	ome sens	sitive individu		
		Eyes:	Overexposure in eyes may cause redness, itching a	and wateri	ng (risk of s	serious damag	je to eyes).
1.4	Acute Health Effects:	Madarata im	Contact may cause serious eye irritation including stingir			arda may ha da	laved Mea
+.4	Acute Health Ellects:		itation to eyes. Moderate irritation to skin near affected ar nptoms include irritating properties to eyes, respiratory sys			ards may be de	elayed. Mos
4.5	Chronic Health Effects:	No harmful irritating to	or chronic health effects are expected to occur from a sing skin and mucous membrane of the eye and respiratory n some sensitive individuals. May also induce skin sensi	le acciden system.	tal ingestion. Overexposu	re may trigger	asthma-like
		allergic dern				Typersensitivi	ty. Toooloit
4.6	Target Organs:	Eyes, Skin.					
4.7	Medical Conditions Aggravated by Exposure:		dermatitis, other skin conditions, and disorders of the	HEALT	Н		1
			s (eyes, skin, and respiratory system) or impaired kidney be more susceptible to the effects of this substance.	FLAMN	IABILITY		0
				PHYSIC	CAL HAZAF	RDS	0
				PROTE	CTIVE EQU	JIPMENT	Α
				EYES	SKIN		
						•	
			5. FIREFIGHTING MEASURES				
5.1	Fire & Explosion Hazards:	increase the and thermal	n, but decomposition, which may be caused by heat, wi explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure	rs. As a re	esult of combi	ustion	
5.1 5.2 5.3	Fire & Explosion Hazards: Extinguishing Methods: Firefighting Procedures:	increase the and thermal in health haz Foam, CO ₂ ,	n, but decomposition, which may be caused by heat, wi explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure zards Water Fog or Dry Chemical	rs. As a re e to such p	esult of combi products may	ustion result	0
5.2	Extinguishing Methods:	increase the and thermal in health haz Foam, CO ₂ , Fight fires a equivalent fought from with water s	n, but decomposition, which may be caused by heat, wi explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure zards Water Fog or Dry Chemical as for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protecti a safe distance. Keep containers cool until well after the spray to prevent pressure build-up, auto-ignition or explos	rs. As a re to such p MSHA/NI ve clothing fire is out sion. Preve	OSH approve g. Fire shoul t. Cool conta	ustion result ed or ld be ainers m fire	00
5.2	Extinguishing Methods:	increase the and thermal in health haz Foam, CO ₂ , Fight fires a equivalent fought from with water s	n, but decomposition, which may be caused by heat, wi explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure zards Water Fog or Dry Chemical as for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protecti a safe distance. Keep containers cool until well after the spray to prevent pressure build-up, auto-ignition or explos lution from entering sewers, drains, drinking water supply,	rs. As a re to such p MSHA/NI ve clothin fire is out sion. Preve or any nat	OSH approve g. Fire shoul t. Cool conta	ustion result ed or ld be ainers m fire	0
5.2	Extinguishing Methods: Firefighting Procedures:	increase the and thermal in health haz Foam, CO ₂ , Fight fires a equivalent fought from with water s control or di	n, but decomposition, which may be caused by heat, wi explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure zards Water Fog or Dry Chemical as for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protecti a safe distance. Keep containers cool until well after the spray to prevent pressure build-up, auto-ignition or explos lution from entering sewers, drains, drinking water supply, 6. ACCIDENTAL RELEASE MEASU	rs. As a re to such p MSHA/NI ve clothing fire is out sion. Preve or any nat	OSH approve g. Fire shoul t. Cool conta ent runoff fror ural waterway	ustion result ed or Id be ainers m fire y.	000
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5.2 5.3 6.1 7.1	Extinguishing Methods: Firefighting Procedures: Spills: Work & Hygiene Practices:	increase the and thermal in health haz Foam, CO ₂ , Fight fires a equivalent s fought from with water s control or di Before clea Equipment. For <u>small s</u> Maximize v appropriate Wash all af clothing and For <u>large s</u> material (e. containers f water. Keep 7 Use normal eating, drint contaminate	n, but decomposition, which may be caused by heat, wi explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure zards Water Fog or Dry Chemical as for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protecti a safe distance. Keep containers cool until well after the spray to prevent pressure build-up, auto-ignition or explos lution from entering sewers, drains, drinking water supply, 6. ACCIDENTAL RELEASE MEASUI ning any spill or leak, individuals involved in spill cleat CAUTION – may be slippery if spilled . spills (e.g., < 1 gallon (3.8 L)) wear appropriate persor entilation (open doors and windows. Remove spilled closed container(s) for disposal. Dispose of properly in actificeted areas and outside of container with plenty of wa wash thoroughly before reuse. <u>pills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotect g, sand or earth). Transfer liquid to containers for recover for proper disposal. Remove contaminated clothing prom p spills and cleaning runoffs out of municipal sewers and out king, or smoking. Good personal hygiene practices, such ad clothing, are recommended.	rs. As a re to such p MSHA/NI ve clothing fire is out ion. Preve or any nat RES nup must material w cordance rm water cted individ ry or dispo pen bodies	OSH approve g. Fire shoul t. Cool conta ent runoff fror ural waterway wear appro- tive equipmen with absorber with local, sta and soap. F duals. Dike usal and solid wash affected s of water.	ustion result ed or Id be ainers m fire y. priate Persona nt (e.g., gogg nt material and ate and federal Remove any c and contain sp diking materia d skin areas w	es, gloves). d place into regulations. ontaminated bill with iner l to separate ith soap and t and before
6.1	Extinguishing Methods: Firefighting Procedures: Spills:	increase the and thermal in health haz Foam, CO ₂ , Fight fires a equivalent s fought from with water s control or di Before clea Equipment. For <u>small s</u> Maximize v appropriate Wash all af clothing and For <u>large s</u> material (e. containers f water. Keep 7 Use normal eating, drint contaminate Keep away	n, but decomposition, which may be caused by heat, wi explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure zards Water Fog or Dry Chemical as for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protecti a safe distance. Keep containers cool until well after the spray to prevent pressure build-up, auto-ignition or explos lution from entering sewers, drains, drinking water supply, 6. ACCIDENTAL RELEASE MEASUI ning any spill or leak, individuals involved in spill cleat CAUTION – may be slippery if spilled . spills (e.g., < 1 gallon (3.8 L)) wear appropriate persor entilation (open doors and windows. Remove spilled closed container(s) for disposal. Dispose of properly in actificate areas and outside of container with plenty of wa wash thoroughly before reuse. pills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotect g., sand or earth). Transfer liquid to containers for recover for proper disposal. Remove contaminated clothing prom p spills and cleaning runoffs out of municipal sewers and ou K. HANDLING & STORAGE INFORMA hygiene practices. Avoid direct skin contact. Wash han king, or smoking. Good personal hygiene practices, such	rs. As a re to such p MSHA/NI ve clothing fire is out sion. Preve or any nat RES nup must material w cordance rm water cted individ ry or dispon pot bodies XTION ds thoroug as washir	OSH approve g. Fire shoul t. Cool conta ent runoff fror ural waterway wear approve with absorber with local, sta and soap. F duals. Dike osal and solid wash affected s of water.	ustion result ed or Id be ainers m fire y. priate Persona nt (e.g., goggint material and ate and federal Remove any c and contain si diking materia d skin areas w	es, gloves). d place into regulations. ontaminated bill with iner l to separate ith soap and t and before nd removing



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8.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m ³)					ES-	ES-				
		CHEMICAL NAME(S) ISOPROPANOL	7LV 200	STEL 400	ES-TWA 200	STEL 500	PEAK NF	PEL 400	500	1DLH 2000	400 TWA
3.2	Ventilation & Engineering	Not required under normal cond									
	Controls:	exhaust ventilation).		450. 00		loquuto	Ventilation	(0.9., 0		o una i	1100000, 100
8.3	Respiratory Protection:	Not required under normal condit	ions of us	e.							
8.4	Eye Protection:	Avoid eye contact. Use approved	l safety g	lasses or	goggles.	Use eq	uipment fo	or eye pr	otection 1	ested	
		and approved under appropriate g	governme	nt standa	rds such a	as NIOSH	l (US) or E	EN 166(E	U).		9
8.5	Hand Protection:	If anticipated that prolonged & re rubber gloves for routine industr appropriate standards of Canada	ial use.	If necess	sary, refer						
8.6	Body Protection:	Not required under normal cond necessary to prevent or reduce ex							e.g., apro	on) as	
		9. PHYSICAL	8 CH								
9.1	Appearance:	Clear to slightly hazy liquid				JFLK					
9.2	Odor:	Lemon citrus fragrance									
9.3	Odor Threshold:	NA									
9.4	pH:	7.0-8.0									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling										
0.7	Range:	100 °C (212 °F) @ 760 mm Hg									
9.7	Flashpoint:	> 121.11 °C (> 250 °F)									
9.8	Upper/Lower Flammability Limits:	ND									
9.9	Vapor Pressure:	< 30									
9.10	Vapor Density:	NA									
9.11	Relative Density:	1.000 @ 25 °C (77 °F)									
9.12	Solubility:	Complete									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:	0.49% VOC									
		10. STA									
10.1	Stability:	Stable under normal conditions of				VIII					
10.1	Hazardous Decomposition										
10.2	Products:	Oxides of carbon (CO, CO ₂) and	nitrogen (NO _x).							
10.3	Hazardous Polymerization:	Will not occur.									
10.4	Conditions to Avoid:	Strong oxidizers.									
10.5	Incompatible Substances:	Strong oxidizing agents, strong a	cids and b	ases.							
		11. TOXICO			NFORI	ΜΔΤΙά)N				
11.1	Routes of Entry:	Inhalation: YES		<i></i>	Absorption:				Ingesti	on: NC)
11.2	Toxicity Data:	This product has not been tested of this product, which are found i product is neither a primary eye n	n the scie	ntific liter	ature. Th	ese data	have not	been pr	esented i	n this d	ocument. Th
11.3	Acute Toxicity:	See Section 4.4							,		
11.4	Chronic Toxicity:	See Section 4.5									
11.5	Suspected Carcinogen:	This product contains <u>Isopropy</u> A IARC. This product does not c reproductive harm. For more infor	ontain ar	ny chemi	cals knov	vn to the	e State o				
11.6	Reproductive Toxicity:	This product is not reported to pro	duce repr	oductive	toxicity in	humans.					
	Mutagenicity:	This product is not reported to pro									
	Embryotoxicity:	This product is not reported to pro		0							
	Teratogenicity:	This product is not reported to pro									
	Reproductive Toxicity:	This product is not reported to pro									
11.7	Irritancy of Product:	See Section 4.2	F								
11.8	Biological Exposure Indices:	NE									
	1	Treat symptomatically.									



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		16. OTHER INFO	ORMATION
16.1	Other Information:	CAUTION – MAY BE SLIPPERY IF SPILLED handling. Avoid eye contact. Wear protective g water. IF IN EYES: Rinse continuously with wate	AUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. D. Wash exposed skin areas thoroughly with soap and water after loves/eye protection/face protection. IF ON SKIN: Wash with soap and er for several minutes. Remove contact lenses if present and easy to do ccurs – Get medical advice/attention. Store in a well-ventilated place. F REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for a knowledge, the information contained herein is completeness is not guaranteed and no warr information contained herein relates only to the s	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other pplicability to this product. To the best of ShipMate's & Granite Gold's reliable and accurate as of this date; however, accuracy, suitability or anties of any type, either expressed or implied, are provided. The pecific product(s). If this product(s) is combined with other materials, all at may be changed from time to time. Be sure to consult the latest
16.4	Prepared for:	Granite Gold, Inc. 9170 Chesapeake Drive San Diego, CA 92123 USA Tel: +1 (858) 499-8933 http://www.granitegold.com/	
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate Dangerous Goods Training & Consulting



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No. Chemical Abstract Service Number	
RTECS No. Registry of Toxic Effects of Chemi	cal Substances Number
EINECS No. European Inventory of Existing Co	mmercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists	
IDLH	IDLH Immediately Dangerous to Life and Health	
NOHSC	National Occupational Health and Safety Commission (Australia)	
OSHA	U.S. Occupational Safety and Health Administration	
PEL	Permissible Exposure Limit	
STEL	Short Term Exposure Limit	
TLV	Threshold Limit Value	
TWA	Time Weighted Average	

FIRST AID MEASURES:

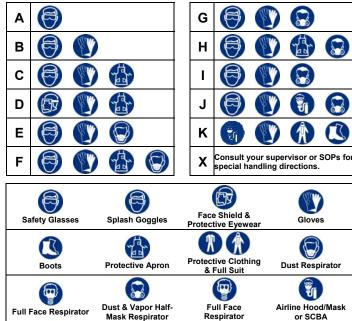
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.	
	and provide oxygen to the body.	

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

	0	Minimal Hazard	HEALTH
	1	Slight Hazard	FLAMMABILITY
ſ	2	Moderate Hazard	PHYSICAL HAZARDS
ſ	3	Severe Hazard	PERSONAL PROTECTION
ſ	4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

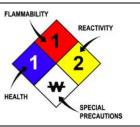
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	TY LIMITS IN AIR:
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
Temperature	
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard	FL
1	Slight Hazard	FL
2	Moderate Hazard	1
3	Severe Hazard	1
4	Extreme Hazard	1
ACD	Acidic	3
ALK	Alkaline	1
COR	Corrosive	
W	Use No Water	HE
ох	Oxidizer	1
TREEOII	Radioactive	1



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{lo} , LD _{lo} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	WHMIS Canadian Workplace Hazardous Material Information System	
DOT	DOT U.S. Department of Transportation	
тс	TC Transport Canada	
EPA	U.S. Environmental Protection Agency	
DSL	Canadian Domestic Substance List	
NDSL	Canadian Non-Domestic Substance List	
PSL	Canadian Priority Substances List	
TSCA	U.S. Toxic Substance Control Act	
EU	European Union (European Union Directive 67/548/EEC)	
WGK	Wassergefährdungsklassen (German Water Hazard Class)	

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond					
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment