



# SAFETY DATA SHEET

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**BC-002**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 1.0

SDS Revision Date: 6/24/2014

## 1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	<b>PRESTO® GUN BLUE PEN</b>	NZ DISTRIBUTOR Steve's Wholesale Ltd. Units 5 – 7 / 408 The Esplanade Island Bay Wellington 6023 team@steveswholesale.nz Emergency Contact: Steve Collings 0800 303 303 0274 905 708 Poison Control 0800 POISON (0800 764 766)
1.2	Chemical Name:	Acid Mixture	
1.3	Synonyms:	13201	
1.4	Trade Names:	Presto® Gun Blue Pen	
1.5	Product Use:	Metal Finishing	
1.6	Distributor's Name:	Birchwood Casey.	
1.7	Distributor's Address:	7887 Fuller Road, Suite #100, Eden Prairie, MN 55344 USA	
1.8	Emergency Phone:	<b>ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152</b>	
1.9	Business Phone / Fax:	+1 (952) 388-6717	

## 2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	<p>This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia).</p> <p><b>DANGER! TOXIC IF INHALED. TOXIC IF SWALLOWED. MAY CAUSE DAMAGE TO ORGANS. CAUSES SERIOUS EYE DAMAGE CAUSES SKIN IRRITATION.</b></p> <p><u>Hazard Statements (H):</u> H301 – Toxic if swallowed. H331 – Toxic if inhaled. H315 – Causes skin irritation. H319 – Causes serious eye damage. H373 – May cause damage to organs (kidneys, liver, spleen bones, blood forming organs, respiratory system, eyes, skin, and central nervous system. H412 - Harmful to aquatic life with long lasting effects. H410 – Very toxic to aquatic life with long lasting effects.</p> <p><u>Precautionary Statements (P):</u> P261 – Avoid breathing fume/mist/vapor. P271 – Use only outdoors or in well-ventilated area. P264 – Wash with soap and water thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P280 – Wear eye protection/ face protection/ protective gloves. P301+P310 – IF SWALLOWED: Immediately call a Poison Center (+1-866-291-7152)/ doctor. P330 – Rinse mouth. P302+P352 – IF ON SKIN: Wash with plenty of soap and water. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention. P314 – Get medical advice/attention if you feel unwell. P321 – Specific treatment see section 4 First Aid or instructions on label. P332+P313 – If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P273 Avoid release to the environment. P403+P233 – Store in a well-ventilated place. Keep container tightly closed. P405 – Store locked up. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p>	
2.2	Effects of Exposure:	<p><u>Eyes:</u> Severe or permanent eye damage. Causes irritation and possible burns.</p> <p><u>Skin:</u> Burns upon direct contact. Causes skin irritation and possible burns. May cause itching eczema.</p> <p><u>Ingestion:</u> Harmful if swallowed. Severe burns of mouth, throat, and stomach. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.</p> <p><u>Inhalation:</u> Severe irritation or burns in respiratory tract and mucous membranes. Possible lung damage.</p>	
2.3	Symptoms of Overexposure:	<p><u>Eyes:</u> Redness, burning, irritation, and swelling around eyes</p> <p><u>Skin:</u> Redness, burning, itching, rash, blistering of skin.</p> <p><u>Ingestion:</u> Nausea, vomiting, severe abdominal pain.</p> <p><u>Inhalation:</u> Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing.</p>	
2.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin.	
2.5	Chronic Health Effects:	May damage the nervous system, kidney and/or liver. Prolonged or repeated eye contact may cause conjunctivitis. May cause liver and kidney damage. May cause allergic skin reaction in some individuals.	
2.6	Target Organs:	Eyes, skin, nervous system, kidneys, liver, respiratory system, spleen, blood forming organs, bones.	







## 3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> )									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	TLV	STEL	IDLH		
WATER	7732-18-5	ZC0110000	231-791-2	60-100	NA	NA	NF	NF	NF	NA	NA	NA		
SELENIOS ACID	7783-00-8	VS7175000	231-974-7	1-5	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	AS SE COMPOUNDS	
Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 1; STOT RE 2; H301, H331, H400, H410, H373														
CUPRIC SULFATE	7758-99-8	GL8900000	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	FUME	

NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used  
NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.



## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls:	Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).	
8.2	Respiratory Protection:	In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.	
8.3	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.	 
8.4	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.	
8.5	Body Protection:	A chemical resistant apron and/or protective clothing are recommended when handling or using this product.	 

## 9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Clear blue cream
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	> 212° F
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NDA
9.10	Vapor Density:	< 1
9.11	Relative Density:	NA
9.12	Solubility:	Complete
9.13	Partition Coefficient (log P <sub>ow</sub> ):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA

## 10. STABILITY & REACTIVITY

10.1	Stability:	Stable at normal temperatures.
10.2	Hazardous Decomposition Products:	Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal decomposition may produce selenium, sulfur and copper oxides, nitrogen, and phosphoric oxides.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Excessive heat.
10.5	Incompatible Substances:	Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organic materials, and most metals.

## 11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: YES
11.2	Toxicity Data:	Selenious Acid; Dermal: No data available; LD <sub>50</sub> Intravenous (oral, mouse) = 11 mg/kg		
11.3	Acute Toxicity:	See Section 2.4		
11.4	Chronic Toxicity:	See Section 2.5		
11.5	Suspected Carcinogen:	Selenious Acid is listed by IARC Group 3 (not classifiable as to its carcinogenicity to humans)		
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.		
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.		
11.7	Irritancy of Product:	See Section 2.3		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		


## 12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	No data available.
12.2	Effects on Plants & Animals:	No data available.
12.3	Effects on Aquatic Life:	Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC <sub>50</sub> (Daphnia magna, 12h) = 4.6 mg/L

## 13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler.
13.2	Special Considerations:	U.S. EPA Hazardous Waste - D002, D010, Characteristic - (Characteristic :Corrosivity Toxicity).

## 14. TRANSPORTATION INFORMATION

14.1	49 CFR (GND):	CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) – until 12/31/2020 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S., (Selenious Acid, Phosphoric Acid), 8, II, LTD QTY (IP VOL ≤ 1.0 L)	
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S., (Selenious Acid, Phosphoric Acid), 8, II, LTD QTY (IP VOL ≤ 0.1 L)	
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (Selenious Acid, Phosphoric Acid), 8, II, LTD QTY (IP VOL ≤ 1.0 L) UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (Selenious Acid, Phosphoric Acid), 8, II	
14.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (Selenious Acid, Phosphoric Acid), 8, III, LTD QTY (IP VOL ≤ 1.0 L)	
14.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S., (Selenious Acid, Phosphoric Acid), 8, II, LTD QTY (IP VOL ≤ 1.0 L)	
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (Ácido selenioso, Ácido fosforico), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L)	
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S., (Selenious Acid, Phosphoric Acid), 8, II, LTD QTY (IP VOL ≤ 1.0 L)	

\* This product may also be shipped as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package)


## 15. REGULATORY INFORMATION

HSR002675

15.1	SARA Reporting Requirements:	This product contains <u>Selenious Acid (Selenium compounds)</u> , <u>Phosphoric acid</u> and <u>Cupric sulfate</u> , substances subject to SARA Title III, section 313 reporting requirements. This material contains <u>Copper (II) sulfate</u> (listed as Cupric Sulfate) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
15.2	SARA Threshold Planning Quantity:	Selenium compounds: 454 kg (1,000 lbs) lower threshold; 4,540 kg (10,000 lbs) upper threshold.
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity (RQ):	<u>Selenious Acid (Selenium compounds)</u> : 10 lbs (4.54 kg); <u>Cupric Sulfate</u> 4.54 kg (10 lbs); <u>Phosphoric Acid</u> : 2,270 kg (5,000 lbs)
15.5	Other Federal Requirements:	A Selenium compound is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 or Class 2 Ozone depleters. A selenium compound is listed as a Toxic Pollutant under the Clean Water Act (CWA). None of the chemicals in this product are listed as Hazardous Substances or Priority Pollutants under the CWA.
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class E (Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and Serious Toxic Effects).
15.7	State Regulatory Information:	<u>Selenious Acid</u> is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right-to-Know List (PA), and Wisconsin Hazardous Substances List (WI). <u>Phosphoric Acid</u> is found on the following state criteria lists: FL, MA, MN, and PA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).





## 15. REGULATORY INFORMATION – cont'd

15.8	Other Requirements:	<p>The primary components of this product are listed in Annex I of EU Directive 67/548/EEC.</p> <p><u>Selenious Acid</u>: Environmental danger (N), Toxic (T).  <u>Risk Phrases</u> (R): 20/21-33-50/53 – Harmful by inhalation and in contact with skin. Danger of cumulative effects. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. <u>Safety Phrases</u> (S): S1/2-20/21-28-45-60-61 - Keep locked up and out of the reach of children. When using do not eat drink or smoke. After contact with skin, was immediately with plenty of soap and water. In case of accident or if you fell unwell seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheet</p> <p><u>Cupric sulfate</u>: Harmful (XN); Environmental danger (N).  <u>Risk Phrases</u> (R): 22-36/8-50/53 – Harmful if swallowed. Irritating to eyes and skin. Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.  <u>Safety Phrases</u> (S): S2-60-61 – Do not breathe dust. This material and/or its container must be disposed of as a hazardous waste. Avoid release to the environment. Refer to special instructions/Safety data sheets.</p> <p><u>Phosphoric acid</u>: Irritant (Xi).  <u>Risk Phrases</u> (R): 36/38 – Irritating to eyes and skin. <u>Safety Phrases</u> (S): S1/2-26-45 – Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with copious amounts of water. In case of accident or if you feel unwell seek medical advice immediately</p>	
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## 16. OTHER INFORMATION

SW Revised 01.12.2020

16.1	Other Information:	<p><b>DANGER! Toxic if inhaled. Toxic if swallowed. May cause damage to organs. Causes serious eye damage Causes skin irritation.</b> . May be fatal if swallowed or harmful if inhaled. Causes severe burns to eyes and skin. Combustible materials that contact this product may ignite more easily and burn more intensely. Avoid shock, heat, and friction.</p>
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	<p>This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's &amp; Birchwood Casey's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.</p>
16.4	Prepared for:	<p><b>Birchwood Casey</b>  7887 Fuller Road, Suite #100  Eden Prairie, MN 55344 USA  Tel: +1 (952) 388-6701  Fax: +1 (952) 388/6702  <a href="http://www.birchwoodCasey.com">http://www.birchwoodCasey.com</a></p> 
16.5	Prepared by:	<p><b>ShipMate, Inc.</b>  P.O. Box 787  Sisters, Oregon 97759-0787 USA  Tel: +1 (310) 370-3600  Fax: +1 (310) 370-5700  <a href="http://www.shipmate.com">http://www.shipmate.com</a></p> 



## 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
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### EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

### 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.
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### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

### PERSONAL PROTECTION RATINGS:

A	
B	
C	
D	
E	
F	

G	
H	
I	
J	
K	
X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Synthetic Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

### OTHER STANDARD ABBREVIATIONS:

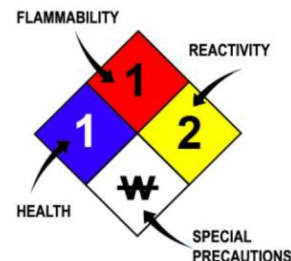
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus
Flam.	Flammable
Liq.	Liquid
Sol.	Solid
Tox.	Toxicity
Irrit.	Irritation
Sens.	Sensitization
Ox.	Oxidizing
Corr.	Corrosion
Repr.	Reproductive (Harm)
Asp.	Aspiration
Inh.	Inhalation
Dam.	Damage
STOT SE	Specific Target Organ Toxicity – Single Exposure
STOT RE	Specific Target Organ Toxicity – Repeated Exposure

### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:	
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
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
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>01</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>01</sub> , LD <sub>01</sub> , & LD <sub>01</sub> or TC, TC <sub>01</sub> , LC <sub>01</sub> , & LC <sub>01</sub>	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL <sub>m</sub>	Median threshold limit
log K <sub>OW</sub> or log K <sub>OC</sub>	Coefficient of Oil/Water Distribution

### REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
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:

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

### EC (67/548/EEC) INFORMATION:

C	E	F	N	O	T	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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