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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 11/29/2018 1. PRODUCT & COMPANY IDENTIFICATION 11 Product Name GUN SCRUBBER SYNTHETIC SAFE FIREARM CLEANER (AEROSOL) 1.2 Chemical Name: Aerosol Steve's Wholesale Ltd. Units 5 - 7 / 408 The Esplanad 1.3 Synonyms 33304, 33327, 33340, 33342, 33344, 33348 Island Bay Wellington 6023 Trade Names: 1.4 Gun Scrubber Synthetic Safe Firearm Cleaner (Aerosol) team@steveswholesale.nz **Emergency Contact: Steve Collings** Product Use: 1.5 Aerosol Firearm Cleaner 0800 303 303 Distributor's Name: 1.6 Birchwood Casey, LLC 0274 905 708 Distributor's Address: 3260 Winpark Drive, New Hope, MN., 55427 USA 1.7 Poison Control 0800 POISON (0800 764 766) 1.8 Emergency Phone: ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152 +1 (952) 388-6717 1.9 Business Phone / Fax: 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: 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). DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER MAY BURST IF HEATED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. Classification: Aerosol 1; Flam. Liq. 3; Asp. Tox. 1; Skin Sens.2; Eye Irrit. 2. 22 Label Flements: Hazard Statements (H): H222 - Extremely flammable aerosol. H229 - Pressurized container may burst if heated. H315 - Causes skin irritation. H319 - Causes serious eye irritation. Precautionary Statements (P): P210 - Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition P251 - Do not pierce or burn, even after use. P261 - Avoid breathing fume/gas/mist/vapors/spray. P264 - Wash thoroughly with soap and water after handling. P270 -Do not eat, drink or smoke when using this product. P271 - Only use outdoors or in a well-



2.3 Other Warnings: WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

In the event of an exposure or modical inquiry involving this product, please contact a physician or local pairon control.

contents/container to licenses treatment, storage and disposal facility (TSDF)

ventilated area. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 – IF ON SKIN: Wash with plenty of soap and water. P321 – Specific treatment – See Section 4 of this Safety Data Sheet. P332+P313 – If skin irritation occurs: Get medical advice/attention. P362+P364 – Take off contaminated clothing and wash it before reuse. P304+P340 – IF INHALED: Remover person to fresh air and keep comfortable for breathing. P312 – Call a POISON CENTER/doctor if you feel unwell. 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. P403+P235 – Store in a well-ventilated place. Keep cool. P410+P412 – Protect from sunlight. Do not expose to temperatures exceeding 50 °F (122 °F). P405 – Store locked up. P501 – Dispose of

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.

KEEP OUT OF REACH OF CHILDREN.

## 3. COMPOSITION & INGREDIENT INFORMATION

								EXPO	SURE L	IMITS IN	I AIR (mg	J/m³)	
					AC	GIH		NOHSC	;		OSHA		
					pį	om		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
METHYLPENTANES	NA	NA	NA	9-90	NA	NA	NF	NF	NF	NA	NA	NA	
METHYLPENTANES													
METHYLCYCLOPENTANE	96-37-7	NA	202-503-2	9-90	NA	NA	NF	NF	NF	NA	NA	NA	
METHYLCYCLOPENTANE	Flam. Liq. 2; H225												
ISOPROPYL ALCOHOL	67-63-0	NT8050000	200-661-7	9-90	400	500	400	500	NF	400	500	2000	400 TWA
ISOPROPTE ALCOHOL	Flam. Liq. 2; Skin Irrit. 3; Eye Irrit. 2A; STOT SE 3; H225, H316, H319												
n-HEXANE	110-54-3	MN9275000	203-777-6	9-90	50	1000	20	72	NF	500	NA	1100	
II-FIEAANE	Flam. Liq. 2; Asp. Tox.1; Skin Irrit. 2; STOT SE3; Repr. 2; STOT RE2; Chronic Aq. Tox. 2; H225, H304, H315, H336, H361, H373, H411												
CARBON DIOXIDE	124-38-9	FF6400000	204-696-9	1-5	5000	30000	5000	9000	NF	5000	30000	40000	ASPHYX
CARBON DIOXIDE	Liq. Gas.; H28	0		•					•		•	•	



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			4. FIRST AID MEASURES	
l.1	First Aid:	Ingestion:	DO NOT INDUCE VOMITING. Contact Poison Cont Control Center or local emergency telephone number medical attention. If vomiting occurs spontaneously, risk of aspiration.	er for assistance and instructions. Seek immediat
		Eyes:	If product gets in the eyes, flush eyes thoroughly with holding eyelid(s) open to ensure complete flushing. If	f the eyes or face become swollen during or followin
		Skin:	use, consult a physician or emergency room immediat Remove contaminated clothing and wash affected and/or the skin reaction worsens, contact a physician	areas with soap and water. If discomfort persis
		Inhalation:	after it has been properly cleaned.  Remove victim to fresh air at once. Under extrer respiration. Seek immediate medical attention.	me conditions, if breathing stops, perform artific
.2	Effects of Exposure:	Ingestion: Eyes:	If product is swallowed, may cause nausea, temporary Moderately irritating to the eyes. Symptoms of overewatering.	
		Skin: Inhalation:	May be irritating to skin. The product can cause aller some sensitive individuals.  None expected.	ergic skin reactions (e.g., rashes, welts, dermatitis)
.3	Symptoms of Overexposure:	Ingestion:	Nausea, intestinal discomfort, vomiting and/or diarrhea	а
		Eyes:	Overexposure in eyes may cause redness, itching and	
		Skin:	Symptoms of skin overexposure may include rednes like symptoms. The product can cause allergic skir individuals.	ss, itching, and irritation of affected areas. Frostbi
.4	Acute Health Effects:	Individuals.  Moderate irritation to eyes. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) ir sensitive individuals.		n reactions (e.g., rashes, welts, dermatitis) in son
.5	Chronic Health Effects:	No harmful o	or chronic health effects are expected to occur from a sir	ngle accidental ingestion.
.6	Target Organs:	Eyes, Skin		
.7	Medical Conditions Aggravated by Exposure:		dermatitis, other skin conditions, and disorders of the ta	arget HEALTH 2
	33 7 1		FLAMMABILITY 4	
			PHYSICAL HAZARDS 0	
			PROTECTIVE EQUIPMENT E	
				EYES SKIN LUNGS
				•
i.1	Fire & Explosion Hazards:	EVTDEMEL	5. FIREFIGHTING MEASURES  Y FLAMMABLE AEROSOL. Level 3 Aerosol (NFP)	
	The d Expression (defende)	temperature be projectile not use in p other source	s above 120 °F. Cool uninvolved containers to preven hazards when bursting. If aerosols are bursting, stay or resence of open flames or sparks. Do not place in hot es of heat. Exposure to heat or sunlight may cause of the open flames of sparks.	nt possible bursting. Aerosols may clear until bursting is complete. Do t water or near radiators, stoves or cans to burst and propel contents.
.2	Extinguishing Methods:		(if permitted), Dry Chemical, Foam, as authorized.	
i.3	Firefighting Procedures:	decompose source of ig First respon protective e	t is a Class IB flammable liquid. When involved in a fire to produce carbon oxides. Vapors of this product are h nition and flash back to a leaking or open container. Inders should wear eye protection. Structural firefight quipment. Use a water spray or fog to reduce or dactually extinguishing a fire involving this product.	neavier than air and may travel to a hters must wear SCBAs and full
			6. ACCIDENTAL RELEASE MEASI	URES
.1	Spills:	Before clea	ning any spill or leak, individuals involved in spill of	
		ventilation (d	<u>oills</u> (e.g., <1 gallon) wear appropriate personal prote open doors and windows) and secure all sources of ignit nto appropriate closed container(s) for disposal. Disp lations. Wash all affected areas and outside of containe	tion. Remove spilled material with absorbent mater cose of properly in accordance with local, state a



10.1

10.2

10.3

10.4

10.5

Stability

Products:

Hazardous Decomposition

Hazardous Polymerization:

Incompatible Substances:

Conditions to Avoid:

# SAFETY DATA SHEET

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Relatively stable under ambient conditions when stored properly.

Strong oxidizers, peroxides or strong acids. Heat, sparks, and flames.

gases (e.g., oxides of carbon & nitrogen).

If exposed to extremely high temperatures, products of thermal decomposition may include irritating vapors and toxic

Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 11/29/2018 SDS Revision: 1.0 11. TOXICOLOGICAL INFORMATION Absorption: YES Routes of Entry: Ingestion: YES 11 1 Toxicity Data: 11 2 This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below. Based on animal test results for similar products and materials (available from scientific literature), the acute toxicity of this product is expected to be: <u>n-Hexane</u>: LD<sub>50</sub> (oral, rat) > 16,000 mg/kg; LD<sub>50</sub> (dermal, rabbit) > 2,000 mg/kg; LC<sub>50</sub> (inh 4h, rat) > 31.86 mg/L. Isopropyl Alcohol: Log Kow = 0.05-0.14. Isopropyl alcohol occurs naturally; it is generated during microbial degradation of plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated half-life in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate. 11.3 Acute Toxicity: Moderate irritation to eyes and skin near affected areas. Chronic Toxicity: 11.4 This material may aggravate any pre-existing skin condition (e.g., dermatitis). Suspected Carcinogen: 11.5 None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA. WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. 11.6 Reproductive Toxicity: WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. 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. Irritancy of Product: 117 See Section 4.2 11.8 Biological Exposure Indices: 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability 12.1 n-Hexane: Readily Biodegradable (83%, 28 days) 12.2 Effects on Plants & Animals: There are no specific data available for this product 12.3 Effects on Aquatic Life: n-Hexane: LC<sub>50</sub> (96h, Fathead minnow) 2.5 mg/L; EC<sub>50</sub> (48h, Daphna magna) 2.1 mg/L; EbL50 (72h, Green algae) 26 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 Special Considerations: 13 2 U.S. EPA Waste Number: D001 (characteristic - ignitable) 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND) UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) - until 12/31/20 14.2 IATA (AIR)\*:  $\bigcirc$   $\bigcirc$   $\bigcirc$ UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, 9, ID8000 (IP VOL ≤ 0.5 L) 14.3 IMDG (OCN): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) 14.4 TDGR (Canadian GND): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) 14.5 ADR/RID (EU): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) 14.6 SCT (MEXICO): UN1950, AEROSOLES, 2.1 (CANT. LTDA., IP VOL ≤ 1.0 L) 14.7 ADGR (AUS): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)



edition

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16.4

16.5

Prepared for:

Prepared by:

# SAFETY DATA SHEET

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**BC-055** Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 11/29/2018 SDS Revision: 1.0 15. REGULATORY INFORMATION HSR002515 SARA Reporting 15.1 This product contains Hexane and Isopropyl Alcohol, substances subject to SARA Title III, Section 313 reporting Requirements: requirements. SARA TPQ: 15.2 There are no specific Threshold Planning Quantities for the components of this product. 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory 15.4 CERCLA Reportable Hexane: 2,270 kg (5,000 lbs) Quantity Other Federal Requirements: 15.5 NA 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS B5, D2B (Flammable Aerosol, Other Toxic Effects) 15.7 State Regulatory Information: Hexane is found on the following state criteria list: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right to Know (PA) and Washington Permissible Exposurés List (WA). Isopropyl Alcohol is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. Carbon Dioxide is found on the following state criteria list: FL, MA, MN, PA, and WA. 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). WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. Other Requirements: 15.8 WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. SW revised 30.12.2020 16. OTHER INFORMATION DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER: MAY BURST IF HEATED. HIGHLY 16.1 Other Information: FLAMMABLE LIQUID AND VAPOR. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist/vapor/spray. Wash thoroughly after Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Specific treatments see section 4 of this SDS. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove person to fresh and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. In case of fire: use Alcohol Resistant-Foam, CO2, or Water Jet to extinguish. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. KEEP OUT OF REACH OF CHILDREN. WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. Terms & Definitions: 16.2 See last page of this Safety Data Sheet. This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other 16.3 Disclaimer: government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Birchwood Casey, LLC 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



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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
RT	ECS No.	Registry of Toxic Effects of Chemical Substances Number
EINI	ECS No.	European Inventory of Existing Commercial Chemical Substances Number

#### **EXPOSURE LIMITS IN AIR:**

ACGIH	American Conference on Governmental Industrial Hygienists	
IDLH	IDLH Immediately Dangerous to Life and Health	
NOHSC	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.

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

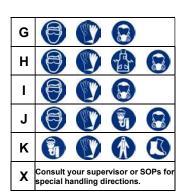
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



## PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D		型	
Е			
F			





#### 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

FLAMMABILITY LIMITS IN AIR:	
Autoignition	Minimum temperature required to initiate combustion in air with no other source
Temperature	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	FLAMMABILITY
1	Slight Hazard	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	<b>2</b>
ALK Alkaline		
COR	Corrosive	/ <b>\ \</b>
W	Use No Water	HEALTH
OX	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### 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>Io</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>io</sub> , LD <sub>io</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TCo, LCio, & LCo	
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 Kow or log Koc	Coefficient of Oil/Water Distribution
IARC NTP RTECS BCF TL <sub>m</sub>	National Toxicology Program Registry of Toxic Effects of Chemical Substances Bioconcentration Factor Median threshold limit

### 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:

0	<b>(</b>	<b>(3)</b>		①	<b>®</b>		Ŕ
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:

		<b>③</b>	$\Diamond$			$\Diamond$		<b>(</b>
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment