










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

MSDS Revision: 1.1

MSDS Revision Date: 12/01/2011

1. PRODUCT IDENTIFICATION		CHEMICAL RESPONSE CARD:				
1.1	Product Name:	One Shot® Gun & Tool Cleaner with Moisture Inhibitor and 4X™ Metal Protector	RESPONSE TEAM PPE:			
1.2	Chemical Name:	See ingredients in Section 3				
1.3	Synonyms:	#99905				
1.4	Trade Names:	One Shot® Gun & Tool Cleaner with Moisture Inhibitor and 4X™ Metal Protector	WHMIS:			
1.5	Product Use:	Dry Film Lubricant	HEALTH:		2	
1.6	Manufacturer's Name:	Hornady Manufacturing Company	FLAMMABILITY:		3	
1.7	Manufacturer's Address:	P.O. Box 1848, Grand Island, NE 68802 USA	PHYSICAL HAZARDS:		0	
1.8	Business Phone:	+1 (308) 382-1390 / +1 (308) 382-5761	PERSONAL PROTECTION:		B	
1.9	Emergency Phone:	CHEMTREC: +1 (800) 424-9300 / +1 (703) 527-3887 (CCN 10740)				

2. IDENTIFICATION OF RISKS

2.1	Hazard Identification: Danger! Flammable liquid and vapor. Danger of serious damage to health by prolonged exposure through inhalation. Breathing vapors may cause drowsiness and dizziness. Causes eye and skin irritation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility. Aspiration hazard if swallowed. Can enter lungs and cause damage. <u>Hazard Statements (H):</u> H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H336 - May cause drowsiness or dizziness. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects. <u>Precautionary Statements (P):</u> P210 - Keep away from heat/sparks/open flames/hot surfaces – No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P281 - Use personal protective equipment as required. P301+310 - IF SWALLOWED - Immediately call a POISON CENTER or doctor/physician. P331 - Do NOT induce vomiting. Poison Schedule: S5. HazChem Code: 3[Y].	   			
2.2	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: YES	
2.3	Effects of Exposure:	<p>EYES: Contact with eyes can cause irritation, redness, tearing, blurred vision, and/or swelling.</p> <p>SKIN: Contact with skin can cause irritation, (minor itching, burning and/or redness). May be absorbed through the skin in harmful amounts. May cause dermatitis.</p> <p>INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea. May cause irritation of the digestive tract. May be harmful if swallowed. May cause lung damage.</p> <p>INHALATION: Harmful if inhaled. May cause respiratory tract irritation. Exposure produces central nervous system depression. Inhalation of vapors may cause drowsiness and dizziness. n-Hexane vapor concentrations can become so high that oxygen is displaced, especially in confined spaces.</p>			
2.4	Symptoms of Exposure:	<p>EYES: Intense stinging or burning sensation, redness, and watering.</p> <p>SKIN: Possible irritation and dermatitis (rash), characterized by red, dry, itching skin.</p> <p>INGESTION: Gastrointestinal discomfort, nausea, vomiting, and headache.</p> <p>INHALATION: Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drowsiness, slurred speech, nausea, and possible nervous system depression.</p>			
2.5	Acute Health Effects:	<p>EYES: Possible severe irritation and tissue damage.</p> <p>SKIN: Possible irritation and dermatitis (rash).</p> <p>INGESTION: Possible toxic effects. Harmful if swallowed.</p> <p>INHALATION: Upper respiratory irritation, possible nervous system depression.</p>			
2.6	Chronic Health Effects:	<p>SKIN: Possible irritation and dermatitis (rash). May cause allergic skin reaction. Chronic exposure may cause liver damage. Adverse reproductive effects have been reported in animals. Laboratory experiments have resulted in mutagenic effects. Chronic exposure may cause blood effects. Animal studies have reported the development of tumors.</p>			
2.7	Target Organs:	<p>Blood, central nervous system, liver, respiratory system, eyes, skin.</p>			
2.8	Toxicological Properties:	<p>None reported by the manufacturer.</p>			

See Section 16 for 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.

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3. COMPOSITION & INGREDIENTS


					EXPOSURE LIMITS IN AIR – ppm (mg/m ³)								
					ACGIH		NOHSC (ES-)			OSHA			
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
n-HEXANE	110-54-3	MN9275000	203-777-6	≤ 75.0	50	NA	50	NF	NF	50	500	1100	
PROPRIETARY MIXTURE	NA	NA	NA	≤ 25.0	NA	NA	NF	NF	NF	NA	NA	NA	
OTHER COMPONENTS PRESENT IN LESS THAN 1% CONCENTRATION				BAL	THE REMAINING COMPONENTS DO NOT CONTRIBUTE ANY SIGNIFICANT ADDITIONAL HAZARDS								

4. FIRST AID

4.1	<p>First Aid:</p> <p>EYES: Flush eyes thoroughly with copious amounts of water for at least 20 minutes, holding eyelids open to ensure complete flushing. Seek immediate medical attention.</p> <p>SKIN: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.</p> <p>INGESTION: Do not induce vomiting. Call a physician or poison control center for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>INHALATION: Remove victim to fresh air at once. If breathing is difficult, provide supplemental oxygen. If breathing has stopped, provide artificial respiration. Seek immediate medical attention. Provide supportive treatment, keeping victim warm and quiet. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.</p>
4.2	<p>Medical Conditions Aggravated by Exposure:</p> <p>None reported by the manufacturer.</p>

5. FIRE & EXPLOSION HAZARDS

5.1	Flashpoint & Method: -22 °C (-7.6 °F), n-Hexane
5.2	Autoignition Temperature: 223 °C (433.4 °F), n-Hexane
5.3	Flammability Limits: Lower Explosive Limit (LEL): 1.25 Upper Explosive Limit (UEL): 7.0
5.4	Fire & Explosion Hazards: Emits toxic fumes under fire conditions.
5.5	Extinguishing Methods: Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide.
5.6	Firefighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor. Keep containers cool until well after the fire is out. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters should wear full-face, self-contained breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious clothing.



6. SPILLS & LEAKS

6.1	<p>Spills:</p> <p>Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Stop spill or leak at source if safely possible. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment. Use proper personal protective equipment as indicated in Section 8. Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Contact appropriate local and/or provincial authorities for assistance and/or reporting requirements.</p>
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7. STORAGE & HANDLING

7.1	<p>Work & Hygiene Practices: Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Keep away from heat, sparks and flame. Do not ingest or inhale. Avoid breathing vapors. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking.</p>
7.2	<p>Storage & Handling: Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices. Store in a tightly closed container. Store in an area equipped with automatic sprinklers or fire extinguishing system. Empty containers contain product residues and should be treated as if full. Bond and ground all equipment when transferring product from one container to another.</p>
7.3	<p>Special Precautions: Readily available emergency fire, first aid, and spill response equipment and/or measures are highly recommended.</p>

8. EXPOSURE CONTROL & PERSONAL PROTECTION

8.1	<p>Ventilation & Engineering Controls: General mechanical ventilation and local exhaust is required for use with this product. When storing large volumes of this product (e.g., more than 1 gallon), Use explosion-proof ventilation equipment. Facilities storing or using large quantities of this material should be equipped with an eyewash facility and a safety shower.</p>
8.2	<p>Respiratory Protection: A respiratory protection program that meets ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use. Do not inhale vapors.</p>
8.3	<p>Eye Protection: Approved safety glasses with side shields should be used with this product. If splashing is anticipated, splash goggles and a face shield are recommended.</p>
8.4	<p>Hand Protection: Where contact is likely, impervious gloves are recommended. Do not wear rings, watches, or jewelry that could entrap the material against the skin.</p>
8.5	<p>Body Protection: None required under normal conditions.</p>

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.675 – 0.696
9.2	Boiling Point:	69 °C (155 °F) @ 760 mm Hg
9.3	Melting Point:	-20 °C (n-Hexane)
9.4	Evaporation Rate:	NA
9.5	Vapor Pressure @ 20 °C:	160 mbar @ 20 °C (n-Hexane)
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Pale yellow liquid
9.8	Odor Threshold:	Characteristic odor
9.9	Solubility:	Negligible
9.10	pH:	ND
9.11	Viscosity:	0.31 mPa @ 20 °C (n-Hexane)
9.12	Coefficient Oil/Water Distribution:	NA
9.13	Additional Information:	Vapor Density (n-Hexane): 2.97 (air = 1.0); VOC Content: 120 g/L

10. STABILITY & REACTIVITY

10.1	<p>Stability: Stable under normal conditions of temperature and pressure.</p>
10.2	<p>Decomposition Products: Carbon dioxide, carbon monoxide, low molecular weight hydrocarbons and other organic compounds.</p>
10.3	<p>Polymerization: Will not occur.</p>
10.4	<p>Conditions to Avoid: Exposure to excessive heat or open flames, storage in open container, long exposure to intense sunlight, and incompatible materials.</p>
10.5	<p>Incompatible Substances: Strong oxidizing agents, fluorine, liquid chlorine, dinitrogen tetroxide, magnesium perchlorate, strong acids, alkalis.</p>

11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data:	n-Hexane: Draize test, rabbit, eye: 10 mg Mild; Inhalation, mouse: LC ₅₀ = 150,000 mg/m ³ /2H; Inhalation, rat: LC ₅₀ = 48,000 ppm/4H; Inhalation, rat: LC ₅₀ = 627, 000 mg/m ³ /3M; Oral, rat: LD ₅₀ = 25 gm/kg. Tumorigenic effects have been reported in experimental animals.
11.2	Acute Toxicity:	See section 2.5
11.3	Chronic Toxicity:	See section 2.6
11.4	Suspected Carcinogen:	Trace amounts of chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be present in this product. However, the levels do not constitute a significant risk.
11.5	Reproductive Toxicity:	
	Mutagenicity:	This product is not expected to cause mutagenic effects in humans. Mutagenic effects have occurred in experimental animals.
	Embryotoxicity:	This product is not expected to cause embryotoxic effects in humans.
	Teratogenicity:	This product is not expected to cause teratogenic effects in humans. Teratogenic effects have occurred in experimental animals.
	Reproductive Toxicity:	This product is not expected to cause reproductive harm in humans. Adverse reproductive effects have occurred in experimental animals.
11.6	Irritancy of Product:	NA
11.7	Biological Exposure Indices:	NA
11.8	Medical Recommendations:	Treat symptomatically.



12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	Estimated BCF values = 2.24 and 2.89. These values suggest that hexane will show low bioconcentration in aquatic organisms. Estimated K_{oc} value = 4.11. Expected to exist entirely in the vapor phase in ambient air, expected half life 2.8 days. Expected to biodegrade but not bioconcentrate.
12.2	Effect on Plants & Animals:	This product will show slight soil mobility and is expected to rapidly volatilize from moist surface soils. Volatilization and adsorption are expected to be the most important fate processes.
12.3	Effect on Aquatic Life:	Photolysis or hydrolysis are not expected to be important. WGK (Germany): 1

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Dispose of in accordance with federal & provincial hazardous waste laws.
13.2	Special Considerations:	U.S. EPA Hazardous Waste: D001 (Characteristic – Ignitability). If the material is unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise prohibited by local ordinance.

14. TRANSPORTATION INFORMATION



14.1	49 CFR (GND):	UN1208, HEXANES, 3, II, LTD QTY (≤ 0.5 L); or CONSUMER COMMODITY, ORM-D	 
14.2	IATA (AIR):	UN1208, HEXANES, 3, II, LTD QTY (≤ 0.5 L); or ID8000, CONSUMER COMMODITY, 9	
14.3	IMDG (OCN):	UN1208, HEXANES, 3, II, LTD QTY (≤ 0.5 L)	
14.4	TDGR (Canadian GND):	MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 0.5 L)	
14.5	ADR/RID (EU):	UN1208, HEXANES, 3, II, LTD QTY (≤ 0.5 L)	
14.6	MEXICO (SCT):	UN1208, HEXANO, 3, II, CANTIDAD LIMITADA (≤ 0.5 L)	

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15. REGULATORY INFORMATION







15.1	SARA Reporting Requirements: This product contains n-Hexane, a chemical subject to SARA Section 313 reporting requirements.	
15.2	SARA Threshold Planning Quantity: NA	
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.	
15.4	CERCLA Reportable Quantity (RQ): n-Hexane: 2,270 kg (5,000 lbs)	
15.5	Other Federal Requirements: This product does not contain any Class 1 or Class 2 ozone depletors. n-Hexane is listed as a hazardous air pollutant (HAP). None of the chemicals in this product are listed as Priority Pollutants under the Clean Water Act (CWA).	
15.6	Other Canadian Regulations This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS 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.	
15.7	State Regulatory Information: n-Hexane is listed on the following state criteria lists: Florida Toxic Substances List, Massachusetts Hazardous Substances List, Minnesota Hazardous Substances List, New Jersey Right-to-Know List, Pennsylvania Hazardous Substances List, Washington Permissible Exposure List.	
15.8	67/548/EEC (European Union) and CLP/GHS (1272/2008/EC) Requirements: n-Hexane: Flammable, Irritant, Harmful to the Environment (F, Xi, N). Risk Phrases (R): R11 - Highly flammable. R38 - Irritating to skin. R48/20 - Harmful - danger of serious damage to health by prolonged exposure through inhalation. R62 - Possible risk of impaired fertility. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful - may cause lung damage if swallowed. R67 - Vapours may cause drowsiness and dizziness. Safety Statements (S): S9 - Keep container in a well-ventilated place. S16 - Keep away from sources of ignition - No smoking. S29 - Do not empty into drains. S33 - Take precautionary measures against static discharges. S36/37 - Wear suitable protective clothing and gloves. S61 - Avoid release to the environment. Refer to special instructions/safety data sheet. S62 - If swallowed, do not induce vomiting - seek medical advice immediately and show this container or label. Hazard Statements (H): H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H336 - May cause drowsiness or dizziness. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects. Precautionary Statements (P): P210 - Keep away from heat/sparks/open flames/hot surfaces - No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P281 - Use personal protective equipment as required. P301+310 - IF SWALLOWED - Immediately call a POISON CENTER or doctor/physician. P331 - Do NOT induce vomiting.	

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16. OTHER INFORMATION

16.1	Other Information: NA		
16.2	Terms & Definitions: Please see last page of this Material Safety Data Sheet.		
16.3	Disclaimer: This Material Safety Data Sheet complies with Health Canada's Workplace Hazardous Materials Information System (WHMIS) & U.S. OSHA's Hazard Communication Standard, 29 CFR §1910.1200. To the best of ShipMate's or Hornady Manufacturing Company's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product. Contact the manufacturer for additional information.		
16.4	<table border="0"><tr><td>Prepared for: Hornady Manufacturing Company P.O. Box 1848 Grand Island, NE 68802 USA Tel: +1 (308) 382-1390 Fax: +1 (308) 382-5761 E-mail: tech@hornady.com web: www.hornady.com</td><td> Hornady <small>Accurate. Deadly. Dependable.</small></td></tr></table>	Prepared for: Hornady Manufacturing Company P.O. Box 1848 Grand Island, NE 68802 USA Tel: +1 (308) 382-1390 Fax: +1 (308) 382-5761 E-mail: tech@hornady.com web: www.hornady.com	 Hornady <small>Accurate. Deadly. Dependable.</small>
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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. 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 S.O.P. for special handling directions.

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

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

OTHER STANDARD ABBREVIATIONS:

C	Celling
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

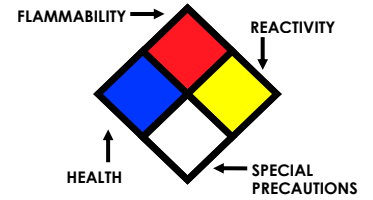
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₀₁	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₀₁, LD₀₁, & LD₀₁ or TC, TC₀₁, LC₀₁, & LC₀₁	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_m	Median threshold limit
log K_{ow} or log K_{oc}	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 SYSTEM: WHMIS

A	B	C	D1	D2	D3	E	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