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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: PLUM BROWN BARREL FINISH 1.2 Chemical Name: NA 1.3 Synonyms 14130, 14145, PB5, PB-QT 1.4 Trade Names: Plum Brown Barrel Finish 15 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 ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152 1.9 Business Phone / Fax +1 (952) 388-6717 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! MAY CAUSE FIRE OR EXPLOSION; STRONG OXIDIZER. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY IRRITATION. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Hazard Statements (H): H271 - May cause fire or explosion; strong oxidizer. H314 - Causes severe skin burns and eye damage. H302 - Harmful if swallowed. H335 - May cause respiratory irritation. H411 - Toxic to aquatic life with long lasting effects. Precautionary Statements (P): P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep away from clothing and other combustible materials. P260 - Do not breathe dust or mist. P264 - Wash with soap and water thoroughly after handling. P270 - Do not eat, drink, or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection. P283 - Wear fire resistant or flame retardant clothing. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER +1 (866) 291-7152 or doctor/physician. P321 - Specific treatments see this container label and section 4 First Aid of this SDS. P330 - Rinse mouth. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P363 - was contaminated clothing before reuse. 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. P306+P360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P371+P380+P375 – In case of major fire and large guantities: Evacuate area. Fight fire remotely due to the risk of explosion. P370+P378 - In case of fire: Use fire-extinguishing media appropriate for surrounding materials. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P391 - Collect spillage. P405 - Store locked up. P420 - Store separately. P501 - Dispose of contents/ container to an approved waste disposal plant. 2.2 Effects of Exposure: Severe or permanent eye damage. Eyes: Skin: Burns upon direct contact. Ingestion: Severe burns of mouth, throat, stomach. Inhalation: Severe irritation or burns in respiratory tract and mucous membranes. Possible lung damage 2.3 Symptoms of Overexposure: Redness, burning, irritation, and swelling around eyes Eyes: Skin: Redness, burning, itching, rash, blistering of skin. Ingestion: Nausea, vomiting, severe abdominal pain. Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. 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. 2.6 Target Organs: Eyes, skin, nervous system, kidneys, liver, respiratory system. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-TLV EINECS No. STEI тιν STEL IDI H CHEMICAL NAME(S) RTECS No. PEAK OTHER CAS No. % TWA STEL 7732-18-5 ZC0110000 231-791-2 60-100 NA NA NF NF NF NA NA NA WATER WC560000 231-554-3 7631-99-4 5-10 NA NA NF NF NF NA NA NA SODIUM NITRATE Ox. Sol. 3; Eye Irrit. 2; H272, H319 NA NA NF NF NF NA NA NA 3811-04-9 FO0350000 232-289-7 5-10 POTASSIUM CHLORATE Ox. Sol. 1; Acute Tox. 4 *; Acute Tox. 4 *; Aquatic Chronic 2; H271, H332, H302, H411 215-704-5 1-5 NA NF NF 13933-17-0 GL7040000 1 NF 1 NA NA COPPER CHLORIDE, DIHYDRATE Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H301, H315, H319, H335



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		3. COMP	OSITION	& INGRE	DIENT	' INF	OR	MAT	ION	con	nt'd				
								1		SURE L	IMITS IN	I AIR (m	g/m³)		
							GIH		NOHSC			OSHA		-	
						Ph	om	ES-	ppm ES-	ES-		ppm			
CHEM	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	TLV	STEL	IDLH	c	DTHER
NITRI	C ACID	7697-37-2	QU5775000 Corr. 1A; H272,	231-714-2	1-5	2	4	2	4	NF	2	NA	25		
		OX. LIQ. 3, 3KI	10011. 1A, 11272,	11314											
			4	FIRST AI		SUE	RES								
4.1	First Aid:	Ingestion: DC						trol C	enter +	-1 (86	6) 291	-7152	or the	neare	st Poison
			ntrol Center o												
	medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the								e the risk						
	of aspiration. <u>Eves</u> : If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 min								minutoo						
			ding eyelid(s)												
		use	e, consult a phy	sician or eme	ergency roo	om imr	nediat	ely.						•	-
			move contamir												
			skin reaction been properly		lact a priy	sician	mmed	latery	. Do no	n wea	CONT	ammau		uning u	
		Inhalation: Re			nce. Unde	r extre	me co	nditior	ns, if br	eathin	g stops	s, perfo	orm art	tificial re	espiration.
		See	ek immediate r	nedical attent	ion.							••			-
4.2	Medical Conditions Aggravated by Exposure:	Pre-existing de target organs						、 .	HEAL						2
		impaired kidne	v function ma	v be more si	usceptible	to the	effect	s of	FLAM						0
		this substance		,					PHYS	-					2
								_	PROTECTIVE EQU				JIPMENT		В
									EYES		SKIN				
		-		REFIGHT									-		
5.1	Fire & Explosion Hazards:	May cause fire													
		can form explo of a fire could													
		fumes.	recut in the g		potontiany	nazar		inour			guo t				
5.2	Extinguishing Methods:	Use fire-exting	uishing media	appropriate fo	or surround	ling ma	aterials	6.							
5.3	Firefighting Procedures:	As with any												2	2
		MSHA/NIOSH clothing. Fight												'	~
		released. The	rmal degradat	ion may proc	duce oxide	es of o	carbon	, pho	sphoro	us, se	lenium	n and/	or)XX
		nitrogen, hydr	ocarbons and/	or derivatives	s. Fire sho	ould be	e foug	ght fro	mas	afe dis	stance	. Kee	эp		
		containers coc protect persor	l until well atte	r the fire is ou	ut. Use wa	ater spi	ray to	cool fi	re-expo	osed s	from	s and	to		
		sewers, drains						CONTRO		nution	nom	entern	'9		
				11.27	1		-								
		6	. ACCIDE	ENTAL R	ELEAS	SE M	IEAS	SUR	ES						
6.1	Spills:	Before cleanin Equipment (PF apron, boots, e	PE). Use safet	y glasses or											
		Small Spills: W	/ear appropriat	te protective											
		disposal.							•						
		Large Spills: A or release. Iso													
		be done with n													
		Recover as m	uch free liquid	as possible a	nd collect	in acid									
		discharging liq	uid directly into	a sewer or s	urface wat	ers.									
		7				- 1815									
7 4	Work & Uneigne Dreationer		HANDLIN												
7.1	Work & Hygiene Practices:	Avoid breathing of the reach of													
		expose to hea													
		decontaminate	any spills or re	esidues.			•								•
7.2	Storage & Handling:	Use and store													
		sunlight. Store (120°F). Keep													
7.3	Special Precautions:	Empty containe						-,							



11.8

11.9

Biological Exposure Indices:

Physician Recommendations:

NE

Treat symptomatically.

SAFETY DATA SHEET

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		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 pale blue liquid							
9.2	Odor:	Odorless							
9.3	Odor Threshold:	NA							
9.4	pH:	1.0							
9.5	Melting Point/Freezing Point:	NA							
9.6	Initial Boiling Point/Boiling Range:	> 102 °C (> 216 °F)							
9.7	Flashpoint:	NA							
9.8	Upper/Lower Flammability	NA							
9.9	Limits: Vapor Pressure:								
9.9	Vapor Density:	NA							
9.11	Relative Density:	< 1.0 (air = 1.0) 1.13							
9.12	Solubility:	Soluble							
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:	Evaporation Rate: < 1.0 (ethyl ether = 1.0)							
-									
		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, nitrogen, phosphoric and copper oxides.							
10.3	Hazardous Polymerization:	Will not occur.							
10.4	Conditions to Avoid:	Excessive heat, shock, friction.							
10.5	Incompatible Substances:	Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organic materials, most metals.							
		11. TOXICOLOGICAL INFORMATION							
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES							
11.2	Toxicity Data:	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 but is not presented in this document. <u>Potassium chlorate</u> : LD ₅₀ 1870 mg/kg.							
		Copper chloride: LD ₅₀ 140 mg/kg.							
11.3	Acute Toxicity:	See Section 2.4							
11.4	Chronic Toxicity:	See Section 2.5							
11.5	Suspected Carcinogen:	Components in this product are listed by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans).							
11.6	Reproductive Toxicity: Mutagenicity:	This product is not reported to cause reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans.							
	Embryotoxicity:	This product is not reported to produce indiagenic effects in humans.							
	Teratogenicity:	This product is not reported to produce employed and produce energy in numaris.							
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.							
11.7	Irritancy of Product:	See Section 2.3							



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12.1	Environmental Stability:	12. ECOLOGICAL INFORMATION							
12.1	Effects on Plants & Animals:	No data available.							
12.2	Effects on Aquatic Life:	No data available. Very toxic to aquatic life with long lasting effects. Marine Pollutant – Cupric Chloride.							
12.5									
	13. DISPOSAL CONSIDERATIONS								
13.1	Rohom banon lobal, stato and lobal and lobal and logalation to dotomine banon clatab and appropriate								
	disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, sta								
		and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage							
40.0	On a sigl Opensidenstienes	and disposal of hazardous waste must be provided by a licensed facility or waste hauler.							
13.2	Special Considerations:	U.S. EPA Hazardous Waste – Characteristic - Corrosive (D002).							
		14. TRANSPORTATION INFORMATION							
14.1	49 CFR (GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION), 8, 11,							
		LTD QTY (IP VOL ≤ 1.0 L)							
		CONSUMER COMMODITY; EXCEPTED QUANTITY							
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION), 8,II, LTD QTY (IP VOL ≤ 0.1 L)							
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION), 8, II,							
		LTD QTY (IP VOL ≤ 1.0 L)							
		EXCEPTED QUANTITY							
		Marine Pollutant – Cupric Chloride Solution.							
14.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION), 8, II, LTD QTY (IP VOL ≤ 1.0 L)							
14.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION), 8, II,							
		LTD QTY (IP VOL ≤ 1.0 L)							
		EXCEPTED QUANTITY							
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO NITRICO SOLUCIÓN), 8, II, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L)							
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION), 8, II, LTD QTY (IP VOL ≤ 1.0 L)							
		EXCEPTED QUANTITY							
* This	product may also be shipped as a	n Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package)							
		15. REGULATORY INFORMATION							
15.1	SARA Reporting Requirements:	This product contains <u>Nitric Acid</u> a substance subject to SARA Title III, section 313 reporting requirements.							
15.2	SARA Threshold Planning Quantity:	302 TPQ (Nitric Acid): 1,000 lbs (454 kg)							
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.							
15.4	CERCLA Reportable Quantity (RQ):	<u>Nitric Acid</u> : 1,000 lbs (454 kg).							
15.5	Other Federal Requirements:	NA							
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/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class C (Oxidizing Material). WHMIS Class D1B (Materials Causing Immediate and Serious Toxic Effects).							
15.7	State Regulatory Information:	Sodium nitrate is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), and Pennsylvania Right-to-Know List (PA).							
		Nitric Acid is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA.							
		Potassium chlorate is found on the following sate criteria list: PA and NJ.							
		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).							

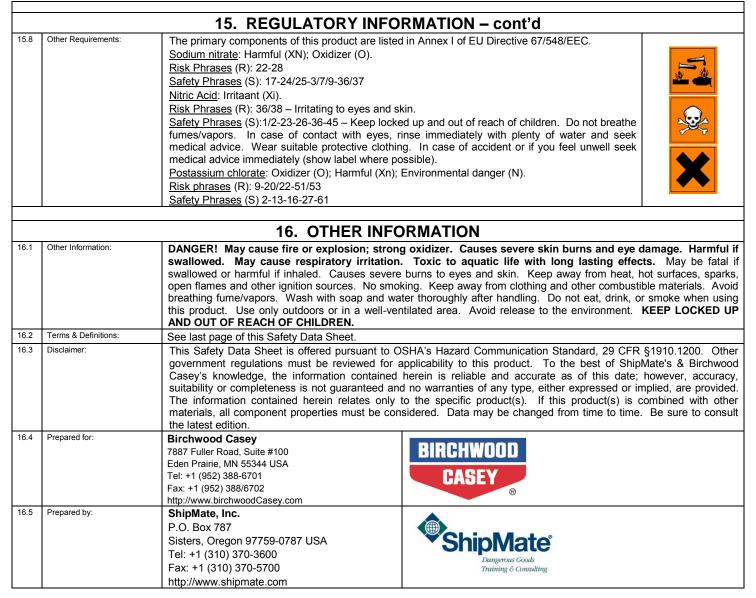


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DEFINITION OF TERMS

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

EXPOSURE LIMITS IN AIR:

ACGIH	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.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:

Α	6		G					
в			н					
С			I					
D			J					
Е			к	I				
F			X	Consult yo for special				
Sa	ifety Glasses	Splash Goggles		e Shield & tive Eyewea	r	Glove	s	
Boots		Synthetic Apron	Protective Clothing & Full Suit		9 C	Dust Respirator		
Full Face Respirator		Dust & Vapor Half- Mask Respirator	Full Face Respirator		Ai	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.	Senitization
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	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
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
₩	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
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	Canadian Workplace Hazardous Material Information System					
DOT	U.S. Department of Transportation					
TC	Transport Canada					
EPA	U.S. Environmental Protection Agency					
DSL	DSL Canadian Domestic Substance List					
NDSL	NDSL Canadian Non-Domestic Substance List					
PSL	Canadian Priority Substances List					
TSCA	U.S. Toxic Substance Control Act					
EU	EU European Union (European Union Directive 67/548/EEC)					
WGK	Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\bigcirc	۲	٨		Ē			
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:

V		×	¥	*	e X	×	×
С	E	F	N	O T Xi		Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			\diamondsuit					× ×
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environ- ment