

## **SAFETY DATA SHEET**

Page 1 of 6 SYC-023

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 1.0

SDS Revision Date: 5/17/2022

.1	I 5	1. PRODUCT & COMPANY IDENTIFICATION					
1.1 Product Name: STARKE LIQUID THOR							
2	Chemical Name:	MIXTURE					
3	Synonyms:	NA NA					
4	Trade Names:	Starke Liquid Thor					
5	Product Use:	Stain and Spill Treatment					
6	Distributor's Name:	Starke Yacht Surface Technologies					
7	Distributor's Address:	17000 Alico Commerce Ct., Suite 101, Fort Myers, FL 33912					
8	Emergency Phone:	John Watkins +1 (239) 851-6030					
9	Business Phone / Fax:	+1 (800) 203-5315					
<u> </u>	Dusiness Flione / Lax.	+1 (800) 203-3315					
		2. HAZARDS IDENTIFICATION					
1	Hazard Identification:	Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.120					
		Canadian WHMIS and Australian Work Health and Safety.					
		DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SEVERE SKIN BURNS AND EYE DAMMAG					
		HARMFUL IF SWALLOWED. MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE.					
		Classification: Flam. Liq. 3, Skin Corr. 1B, Acute Tox. 4 (oral), Aquatic Chronic 4					
.2	Label Elements:	Hazard Statements (H): H225 – Highly flammable liquid and vapor. H314 – Causes severe skin					
		burns and eye damage. H302 – Harmful if swallowed. H412 – May cause long lasting harmful					
		effects to aquatic life					
		Precautionary Statements (P): P210 – Keep away from heat, hot surfaces, sparks, open flames					
		and other ignition sources. No smoking. P233 – Keep container tightly closed. P240 – Ground					
		and bond container and receiving equipment. P241 – Use explosion-proof					
		(electrical/ventilating/lighting) equipment. P242 – Use non-sparking tools. P243 – Take action to					
		prevent static discharges. P233 – Keep container tightly closed. P260 – Do not breathe dust or					
		mist. P264 – Wash thoroughly after handling. P270 – Do not eat, drink or smoke when using this					
		product. P273 – Avoid release to the environment. P280 – Wear protective gloves/protective					
		clothing/ eye protection/face protection. P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do					
		not induce vomiting. P363 – Wash contaminated clothing before reuse. P304+P340 – IF					
		not induce vomiting. P363 – Wash contaminated clothing before reuse. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P316 – Get					
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	Lector	1	4. FIRST AID MEASURES		
4.1	First Aid:	Ingestion:	If ingested, do not induce vomiting. If product h IMMEDIATELY. If the patient is vomiting, continue an unconscious person. Contact the nearest Po Provide an estimate of the time at which the mate that was swallowed.	e to offer water or milk. Never give water or milk oison Control Center or local emergency numb	
		Eyes:	Splashes are not likely; however, if product gets in water for at least 15 minutes. If irritation occurs, co		
		Skin:	If irritation occurs and product is on the skin, rin: thorough washing of the affected area with soap a contact a physician immediately.		
		Inhalation:	Remove victim to fresh air at once.		
4.2	Effects of Exposure:	Ingestion: Eyes:	If product is swallowed, may cause nausea, vomiti Moderately irritating to the eyes. Symptoms of or and watering.	verexposure may include redness, itching, irritati	
		Skin: Inhalation:	May be irritating to skin. The product can cause al in some sensitive individuals.  None expected.	nergic skin reactions (e.g., rasnes, weits, dermatit	
1.3	Symptoms of Overexposure:	Ingestion:	Nausea, intestinal discomfort, vomiting and/or diar	 rrhea.	
		Eyes:	Overexposure in eyes may cause redness, itching	and watering.	
		Skin:	Symptoms of skin overexposure may include redne can cause allergic skin reactions (e.g., rashes, well	lts, dermatitis) in some individuals.	
1.4	Acute Health Effects:		g when used as directed. Moderate irritation to eye ons of vapors can cause drowsiness, dizziness, head		
4.5	Chronic Health Effects:	Non-irritating	g when used as directed. Overexposure may trigger adduce skin sensitization and respiratory hypersensitivi	asthma-like symptoms in some sensitive individua	
1.6	Target Organs:	Eyes, CNS	1 7 71	, ,	
.7	Medical Conditions Aggravated by Exposure:		dermatitis, other skin conditions, and disorders of gans (eyes).	FLAMMABILITY 3 PHYSICAL HAZARDS 0	
				PROTECTIVE EQUIPMENT B	
				EYES SKIN	
			F FIREFIGUEINO MEAGUREO		
	T	T =	5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards:	sparks & open involved in Vapors of the	HIGHLY FLAMMABLE LIQUID AND VAPOR! Keep en flame. Keep container closed. This product is a Cla a fire, this product will ignite readily and decompos is product are heavier than air and may travel to a so or open container	ass IB flammable liquid. When se to produce carbon oxides.	
5.2	Extinguishing Methods:	· · · · · · · · · · · · · · · · · · ·	wder, Dry Chemical, Foam, water mist.		
5.3	Firefighting Procedures:	Fight fires according to the surrounding materials. As in any fire, wear an MSHA / NIOSH approved self-contained breathing apparatus (pressurized) and full protective clothing. Keep containers cold long after the fire is out. Use a spray of diffused water to cool the surfaces exposed to the fire and to protect personnel. Fight the fire upstream. Avoid spraying water directly into storage containers due to the danger of overflowing. Prevent runoff from fire control or dilution from entering sewers, drains, potable water supplies or natural waterways. Firefighters must use full response clothing including a NIOSH approved self-contained positive pressure breathing apparatus to protect against potential hazardous combustion or decomposition of products and lack of oxygen.			
		6.	ACCIDENTAL RELEASE MEASU	IRES	
6.1	Spills:	Equipment. For small sp Maximize ve absorbent m with local, st and soap. R For large sp material (e.g for recovery	ning any spill or leak, individuals involved in spill of CAUTION – may be slippery if spilled.  bills (e.g., < 1 gallon (3.8 L)) wear appropriate persentilation (open doors and windows) and secure all naterial and place into appropriate closed container(state and federal regulations. Wash all affected areas remove any contaminated clothing and wash thorouguills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprogo,, sand or earth). Use ONLY non-sparking tools for or disposal and solid diking material to separate comptly and wash affected skin areas with soap and wall	sonal protective equipment (e.g., goggles, glove I sources of ignition. Remove spilled material w (s) for disposal. Dispose of properly in accordar s and outside of container with plenty of warm wa ghly before reuse. Ditected individuals. Dike and contain spill with in recovery and cleanup. Transfer liquid to contain	



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		7. HANDLING & S	STOR	∆GF I	NFO	ZMΔT	ION				
7.1	Work & Hygiene Practices:	Do not eat, drink, or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapors, mists, or spray. Avoid prolonged or repeated skin contact. Wash hands after handling, and before eating. Avoid breathing of dust created by sanding, grinding, or machining. When polishing with product, keep moist to avoid dust.									
7.2	Storage & Handling:	Keep containers sealed at all times, store in well-ventilated area. Store away from areas where product may come									
7.3	Special Precautions:	into contact with food or pharmaceuticals. Store away from oxidizing agents.  Follow all instructions on product label. Keep container closed when not in use. Keep this and all chemicals out of									
		reach of children.									
		EXPOSURE CONTRO			<u>SONA</u>		OTE	CTION			1
8.1	Exposure Limits: ppm (mg/m³)		ACC	GIH I	ES-	NOHSC ES-	ES-		OSHA	I	OTHER
	ppin (ing/iii )	CHEMICAL NAME(S)	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
		AMMONIA, ANHYDROUS	25	35	17	24	NF	25	35	NA	
8.2	Ventilation & Engineering Controls:	Provide appropriate local exhaus Use in an enclosed process area areas with little or no air moveme	is recon								
8.3	Respiratory Protection:	Avoid breathing of vapors, mists or spray. No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.									
8.4	Eye Protection:	AVOID EYE CONTACT. Wear §1910.133, Canadian standards,						.S. OSH	A 29 C	FR (	
8.5	Hand Protection:	AVOID SKIN CONTACT. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Nitrile Rubber. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.									
8.6	Body Protection:	No special body protection is re necessary, refer to appropriate st									
		9. PHYSICAL & (	~HEM	IIC A I	DDO	DEDT	IEC				
9.1	Appearance:	Clear liquid		ICAL	PKU	PERI	ILO				
9.2	Odor:	Ammonia and solvent like									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	NA									
9.7	Flashpoint:	26 °C (79 °F)									
9.8	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	NA									
9.11	Relative Density:	7.53 lbs/gal									
9.12	Solubility:	ND									
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:	NA									
		10. STABIL	.ITY 8	REA	CTIV	ITY					
10.1	Stability:	Stable under ambient conditions	when sto	red prope	erly (see	section	7, Stora	age and I	landling	g)	
10.2	Hazardous Decomposition Products:	If exposed to extremely high tem carbon oxide gases (e.g., CO, CO	D <sub>2</sub> ), hydro						may inc	lude irrita	ation vapors and
10.3	Hazardous Polymerization:	Hazardous polymerization will no									
10.4	Conditions to Avoid:	High temperatures and incompati									
10.5	Incompatible Substances:	Strong oxidizing agents. May read	ct with wa	ater, with	certain	orotic so	lvents a	icids and	isocyar	nates.	



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SYC-023 Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 5/17/2022 11. TOXICOLOGICAL INFORMATION Inhalation: YES Routes of Entry: Absorption: YES 11.1 Ingestion: YES 11 2 Toxicity Data: This product has not been tested on animals to obtain toxicology data. There is toxicology data for some components of the product, which are found in scientific literature. Oral LD50 500 mg/kg (oral, rat). Skin irritation, rabbit: severe erythema with signs of necrosis after 1-hour exposure. 11.3 Acute Toxicity: See Section 4.4 Chronic Toxicity: 11.4 See Section 4.5 11.5 Suspected Carcinogen No. Reproductive Toxicity: 11.6 This product is not reported to cause reproductive toxicity in humans. Mutagenicity: This product is not reported to cause mutagenic effects in humans. Embryotoxicity: This product is not reported to cause 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: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. Biological Exposure Indices: 11.8 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: 12.1 There are no specific data available for this product Effects on Plants & Animals: 12.2 There are no specific data available for this product. 12.3 Effects on Aquatic Life: There are no specific data available for this product. Avoid release to the environment. 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 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. California State Waste Code: 331 13.2 Special Considerations Contact the federal, state or provincial environmental authority to determine suitability for recycling and or proper disposal requirements. 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 14 1 49 CFR (GND): UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (METHYLTRIMETHOXYSILANE, POLYSILAZANE), 3, (8) II IATA (AIR): UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (METHYLTRIMETHOXYSILANE, POLYSILAZANE), 3, (8) II IMDG (OCN): 14.3 UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (METHYLTRIMETHOXYSILANE, POLYSILAZANE), 3, (8) II TDGR (Canadian GND): 14.4 UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (METHYLTRIMETHOXYSILANE, POLYSILAZANE), 3, (8) II ADR/RID (EU): 14.5 UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (METHYLTRIMETHOXYSILANE, POLYSILAZANE), 3, (8) II SCT (MEXICO): 14.6 UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (METHYLTRIMETHOXYSILANE, POLYSILAZANE), 3, (8) II 14.7 ADGR (AUS): UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (METHYLTRIMETHOXYSILANE, POLYSILAZANE), 3, (8) II 15. REGULATORY INFORMATION 15.1 SARA Reporting Requirements: This product does not contains a substance subject to SARA Title III (313) reporting and 40 CFR part 373. SARA Threshold Planning Quantity: 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 Quantity (RQ): Ammonia, Anhydrous: 1,000 lbs (454 kg) 15.5 Other Federal Requirements: This product does not contain any substances identified as Hazardous Air Pollutants (HAPs) 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the HPR and the MSDS contains all of the information required by the HPR. 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 D2B (Other Toxic Effects)



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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 5/17/2022 15. REGULATORY INFORMATION - cont'd State Regulatory Information: DI-N-Butyl Ether is found on the following state criteria list: MA, NJ and PA. No 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). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov 15.8 Other Requirements This product is found on the following inventory lists: Australia - AICS, China - IECSC, Europe - ELINCS/EINEC, Japan - ENCS; Korea - KECI; New Zealand - NZIoC; Philippines - PICCS; USA - TSCA. 16. OTHER INFORMATION DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SEVERE SKIN BURNS AND EYE DAMMAGE. 16.1 Other Information: HARMFUL IF SWALLOWED. MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE. Read instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof (electrical/ventilating/lighting) equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Do not breathe dust or mist. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/ eye protection/face protection. IF SWALLOWED: Rinse mouth. Do not induce vomiting. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. 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 help. Specific treatment see section 4 (first aid) of this SDS or container label. Store in a wellventilated place. Keep cool. Store locked up. KEEP LOCKED UP AND AWAY FROM CHILDREN. Terms & Definitions: See last page of this Safety Data Sheet. 16.3 Disclaimer: 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 & Starke Yacht Care'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. 16.4 Prepared for: STARKE YACHT CARE 17000 Alico Commerce Ct. Suite 101 TARK Fort Myers, FL 33912 Tel: +1 (800) 203-5315 Yacht Surface Technologies http://www.starkeyachtcare.com 16.5 Prepared by: ShipMate, Inc.

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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 1.0

SDS Revision Date: 5/17/2022

#### **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 Chemical Substances Number			
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number		

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

ACGIH	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.

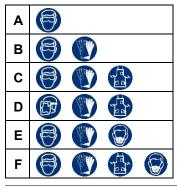
#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

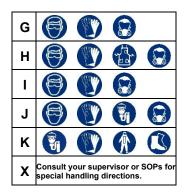
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



#### PERSONAL PROTECTION RATINGS:







#### 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 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 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	
ALK	Alkaline	
COR	Corrosive	/ <b>~~~</b>
₩	Use No Water	HEALTH 🔪
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

	<u> </u>
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
TDio	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

#### 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>(2)</b>	<b>③</b>	<b>(</b>	$\odot$	(4)		R
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:

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