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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 3/3/2021 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: STARKE VENOM 12 Chemical Name: **Aqueous Solution** 1.3 Synonyms: NA 14 Trade Names Starke Venom significant 1.5 Product Use: Exterior Cleanser Starke Yacht Surface Technologies 1.6 Distributor's Name: 17000 Alico Commerce Ct., Suite 101, Fort Myers, FL 33912 1.7 Distributor's Address 1.8 Emergency Phone: John Watkins +1 (239) 851-6030 1.9 Business Phone / Fax +1 (800) 203-5315 2. HAZARDS IDENTIFICATION Hazard Identification 21 Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety. WARNING! CAUSES SERIOUS EYE IRRITATION. CAUSES MILD SKIN IRRITATION. Classification: Eve Irrit. 2A. Skin Irrit. 3 2.2 Label Elements: Hazard Statements (H): H316 - Causes mild skin irritation. H319 - Causes serious eye Precautionary Statements (P): P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. Other Warnings: KEEP OUT OF REACH OF CHILDREN 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) **ACGIH** NOHSC **OSHA** maa ppm maa FS-ES-FS-RTECS No. **EINECS No** TLV STEL **TWA** PEL STEL IDLH OTHER CHEMICAL NAME(S) CAS No. STEL PEAK 60-100 7732-18-5 ZC0110000 231-791-2 NA NA NF NF NF NA NA NA WATER 77-92-9 GE7350000 201-069-1 0-20 NA NA NF NF NF NA NA NA CITRIC ACID 63148-62-9 NA NA 0-10 NA NA NF NF NF NA NA NA SILOXANES, DIMETHYL 60828-78-6 0-5 NA NA NF NF NF NA NA NA POLYETHYLENE GLYCOL TRIMETHYLNONYL ETHER Eye Dam. 1; H318 200-661-7 0-1 400 500 983 1230 nf 400 500 2000 400 67-63-0 NT8050000 ISOPROPYL ALCOHOL Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 NA NA NA NF NF NA NA NA 0-1 NF NA NA FRAGRANCE / PARFUM NA NA NA 0-0.1 NA NA NF NF NF NA NA I COLORANT 4. FIRST AID MEASURES 4 1 First Aid: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk Ingestion: IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of Eyes: lukewarm water for at least 15 minutes. If irritation occurs, contact a physician. If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a Skin: thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. Inhalation: Remove victim to fresh air at once. 4.2 Effects of Exposure: Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, Eyes: irritation and watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, Skin: dermatitis) in some sensitive individuals. None expected. Inhalation:

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SYS-004 Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 3/3/2021 4. FIRST AID MEASURES - cont'd 4.3 Symptoms of Overexposure: Nausea, intestinal discomfort, vomiting and/or diarrhea. Ingestion: Overexposure in eyes may cause redness, itching and watering. Eyes: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Skin: Product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals. 4.4 Acute Health Effects: Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 4.5 Chronic Health Effects: Non-irritating when used as directed. Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis. 4.6 Target Organs: 47 Medical Conditions Aggravated by Pre-existing dermatitis, other skin conditions, and disorders of HEALTH 1 Exposure: the target organs (eyes). **FLAMMABILITY** 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: This product is not flammable. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO_x). 5.2 Extinguishing Methods: Water, Foam, CO₂, Dry Chemical. Use water spray to cool unopened containers. 5.3 Firefighting Procedures: Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved selfcontained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. CAUTION - may be slippery if spilled. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION 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. Keep containers sealed at all times, store in well-ventilated area. Store away from areas where product may come 7.2 Storage & Handling: into contact with food or pharmaceuticals. Store away from oxidizing agents. 7.3 Special Precautions: Follow all instructions on product label. Keep container closed when not in use. Keep this and all chemicals out of reach of children. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA OTHER 8.1 ppm (mg/m³) ES-ES-STEL CHEMICAL NAME(S) TLV STEL TWA STEL PEAK PEL ISOPROPYL ALCOHOL 400 500 983 1230 NF 400 500 8.2 Ventilation & Engineering Controls: Provide appropriate local exhaust ventilation on open containers. When using keep the product moist at all times.

Use in an enclosed process area is recommended. Use in a well-ventilated area. Do not use in a confined area or

areas with little or no air movement.



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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 3/3/2021 8. EXPOSURE CONTROLS & PERSONAL PROTECTION - cont'd 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 safety glasses. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166 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 8.6 Body Protection: No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: 9.1 Liquid 9.2 Coconut odor 9.3 Odor Threshold: NA 9.4 6 ± 0.5 9.5 Melting Point/Freezing Point: NA 9.6 Initial Boiling Point/Boiling Range: ≥ 95°C (203 °F) 9.7 Flashpoint NA 9.8 Upper/Lower Flammability Limits: NA Vapor Pressure: 9.9 NA 9.10 Vapor Density: NA 9.11 Relative Density: 8.090 lb/gal 9.12 Solubility: Soluble in water 9.13 Partition Coefficient (log Pow): NA 9.14 **Autoignition Temperature** NA 9.15 Decomposition Temperature: NA Viscosity: 9.16 NA Other Information: 9.17 NA 10. STABILITY & REACTIVITY 10.1 Stability: Stable under ambient conditions when stored properly (see section 7, Storage and Handling) 10.2 If exposed to extremely high temperatures, the products of thermal decomposition may include irritation vapors and Hazardous Decomposition Products: nitrogen and carbon oxide gases (e.g., NOx, CO, CO2) 10.3 Hazardous Polymerization: Hazardous polymerization will not occur. 10.4 Conditions to Avoid: High temperatures and incompatible substances. 10.5 Incompatible Substances: Strong oxidizing agents TOXICOLOGICAL INFORMATION Routes of Entry YES Absorption: YES 11.1 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. This data is presented below: Isopropyl Alcohol: LD₅₀ (oral, rat) = 5,840 mg/kg; 113 Acute Toxicity: See Section 4.4 11.4 Chronic Toxicity See Section 4.5 11.5 Suspected Carcinogen No. 11.6 Reproductive Toxicity: 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. 11.8 Biological Exposure Indices 119 Physician Recommendations:

Treat symptomatically.



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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 3/3/2021 12. ECOLOGICAL INFORMATION This product will slowly degrade over time into a variety of organic compounds. Specific environmental data 12 1 Environmental Stability: available for the components of this product are as follows: 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. Effects on Plants & Animals: 12.2 There are no specific data available for this product. 12.3 Effects on Aquatic Life: Product is expected to rapidly disperse in the aquatic 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 Special Considerations 13.2 Contact the federal, state or provincial environmental authority to determine suitability for recycling and or proper disposal requirements. 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): 14.1 NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): 14.3 **NOT REGULATED** 14.4 TDGR (Canadian GND): **NOT REGULATED** 14.5 ADR/RID (EU): NOT REGULATED 14.6 SCT (MEXICO): **NOT REGULATED** 14.7 ADGC (AUS): NOT REGULATED 15. REGULATORY INFORMATION SARA Reporting Requirements: 15.1 This product contains Isopropyl Alcohol, 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 TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory. CERCLA Reportable Quantity (RQ): 154 NA Other Federal Requirements: 15.5 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) State Regulatory Information: No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state 15.7 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. Other Requirements: 15.8 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.



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	16. OTHER INFORMATION						
16.1	Other Information:	WARNING! CAUSES SERIOUS EYE IRRITATION. CAUSES MILD SKIN IRRITATION. Read instructions before use. Do not handle until all safety precautions have been read and understood. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. KEEP OUT OF REACH OF CHILDREN.					
16.2	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 Fort Myers, FL 33912 Tel: +1 (800) 203-5315 http://www.starkeyachtcare.com	STARKE Yacht Surface Technologies				
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate* Dangerous Goods Training & Consulting				



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REACTIVITY

PRECAUTIONS

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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		
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	GIH 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

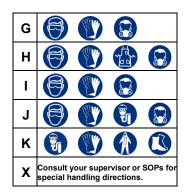
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		H.	
Ε			
F		H.	

















Dust & Vapor Half-Mask Respirator **Full Face Respirator**

Full Face Respirator



OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic		
Irrit	Irritant		
NA	A Not Available		
NR	No Results		
ND	Not Determined		
NE	Not Established		
NF	NF Not Found		
SCBA	Self-Contained Breathing Apparatus		
Sens	Sensitization		
STOT RE	Specific Target Organ Toxicity – Repeat Exposure		
STOT SE	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 so of ignition				
LEL Lower Explosive Limit - lowest percent of vapor in air, by volume 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	FLAMMABILITY	
1 Slight Hazard		PLAMMABILITI
2		
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ 📉 🕂
₩	Use No Water	HEALTH
ОХ	Oxidizer	· ·
TREFOIL	Radioactive	

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals		
LC ₅₀	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 _{io} , LD _{io} , & LD _o 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	C 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	WGK Wassergefährdungsklassen (German Water Hazard Class)		

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(4)	(2)	(X)	\odot	®		
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			\Leftrightarrow		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment