



SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 (REACH)

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING		Trade name: Ethanol 50±10% v/v, Spirit of Hven Organic Single Malt Whisky Product Identifier: Ethanol in Water ~50±10% v/v Chemical name: Ethanol, Ethyl alcohol, C ₂ H ₅ OH Product names:																																																							
<table border="1"><tr><td>CAS-nr</td></tr><tr><td>64-17-5</td></tr><tr><td>EC-nr</td></tr><tr><td>200-578-6</td></tr><tr><td>Index-nr</td></tr><tr><td>603-002-00-5</td></tr></table>		CAS-nr	64-17-5	EC-nr	200-578-6	Index-nr	603-002-00-5	<table border="1"><thead><tr><th>Generic</th><th>%vol</th><th>EAN 100ml</th><th>EAN 500ml</th><th>EAN 750ml</th></tr></thead><tbody><tr><td>Organic Single Malt Whisky Seven Stars no.1 Dubbe</td><td>45</td><td>735004485 9861</td><td>735004485 9823</td><td></td></tr><tr><td>Organic Single Malt Whisky Seven Stars no.2 Merak</td><td>45</td><td>735004485 9847</td><td>735004485 9830</td><td></td></tr><tr><td>Organic Single Malt Whisky Seven Stars no.3 Phecda</td><td>45</td><td>735004485 9045</td><td>735004485 9038</td><td></td></tr><tr><td>Organic Single Malt Whisky Seven Stars no.4 Megrez</td><td>45</td><td>735004485 9243</td><td>735004485 9236</td><td></td></tr><tr><td>Organic Single Malt Whisky Seven Stars no.5 Alioth</td><td>45</td><td>735004485 9212</td><td>735004485 9205</td><td></td></tr><tr><td>Single Malt Whisky, Single Cask Sankt Ibb</td><td>51,4</td><td>735004485 9076</td><td>735004485 9052</td><td></td></tr><tr><td>Organic Single Malt Whisky Single Cask, Sankt Claus</td><td>53,2</td><td>735004485 9090</td><td>735004485 9083</td><td></td></tr><tr><td>Organic Single Malt Whisky Tycho's Star</td><td>41,8</td><td>735004485 9106</td><td>735004485 9113</td><td>735004485 9250</td></tr></tbody></table>					Generic	%vol	EAN 100ml	EAN 500ml	EAN 750ml	Organic Single Malt Whisky Seven Stars no.1 Dubbe	45	735004485 9861	735004485 9823		Organic Single Malt Whisky Seven Stars no.2 Merak	45	735004485 9847	735004485 9830		Organic Single Malt Whisky Seven Stars no.3 Phecda	45	735004485 9045	735004485 9038		Organic Single Malt Whisky Seven Stars no.4 Megrez	45	735004485 9243	735004485 9236		Organic Single Malt Whisky Seven Stars no.5 Alioth	45	735004485 9212	735004485 9205		Single Malt Whisky, Single Cask Sankt Ibb	51,4	735004485 9076	735004485 9052		Organic Single Malt Whisky Single Cask, Sankt Claus	53,2	735004485 9090	735004485 9083		Organic Single Malt Whisky Tycho's Star	41,8	735004485 9106	735004485 9113	735004485 9250
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 		Intended usage: Natural fermented and distilled alcohol for consumption as beverage.																																																							
ORGANIC & ETHICAL TRADE CERTIFIED BY: SE-EKO-01		Company: Spirit of Hven Backafallsbyn AB Norrebrogsnägen 55 SE-260 13 Sankt Ibb, Sweden Phone: +46 418 449 999 E-mail: hm@backafallsbyn.se Prepared by: Henric N Molin																																																							
2. HAZARDS IDENTIFICATION		2.1 Classification of the substance or Mixture 2.1.1 Classification according to Regulation (EC) No1272/2008 [CLP]: Not Classified 2.1.2 Classification according to European Directive 67/548/EEC as amended: Not Classified																																																							
		2.2 Label elements: None																																																							
		2.3 Other Hazards: None																																																							

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3. COMPOSITION / INFORMATION ON INGREDIENTS	Substance Name	C.A.S. No.	EINECS No.	Index-No. in CLP Annex IV	Classification	Concentration				
	Water	7732-18-5	231-791-2	-	Not Classified	40-60%				
	Ethanol	64-17-5	200-578-6	603-002-00-5	Not Classified	40-60%				
	Formula:		H ₂ O (water)		C ₂ H ₅ OH (ethanol)					
	Molecular Weight:		18,02 g/mol (water)		46,07 g/mol (ethanol)					
4. FIRST-AID MEASURES	<p>General: Never give anything by mouth to an unconscious person. Move out of dangerous area. When in doubt or when symptom(s) remains – seek medical advice.</p> <p>Inhalation: If irritation occurs, remove the person to fresh air and rest. If irritation remains seek medical advice.</p> <p>Contact with skin: Remove contaminated clothes. Wash with water make sure to lotion skin.</p> <p>Contact with eyes: Rinse with plenty of water and consult an ophthalmologist if condition not improves.</p> <p>Swallowing: If over consumption, drink plenty of water. Induce vomiting only upon the advice of a physician. If trouble remains seek medical advice</p>									
5. FIRE-FIGHTING MEASURES	<p>5.1 Extinguishing media</p> <p>Extinguishing media: Water Foam CO₂ Powder</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table> <p>Co-ordinate fire-fighting measures to the fire surroundings. Makes explosive mixtures with air, extremely flammable. May explode in a fire. Hazardous decomposition gases: Carbon monoxide(CO), Carbon dioxide(CO₂) Avoid inhalation of smoke.</p> <p>5.2 Special Hazards arising from substance or mixture, Hazardous combustion products: None</p> <p>5.3 Advice for firefighters, Special protective equipment for firefighters: None</p>						X	X	X	X
X	X	X	X							
6. ACCIDENTAL RELEASE MEASURES	<p>Measures for personal safety: Provide ventilation. Shut off or remove all possible sources of ignition. Full protective clothing.</p> <p>Environmental measures: Do not discharge into the drains/surface waters/groundwater. No other environmental measures are necessary.</p> <p>Cleaning methods: Do not allow runoff to sewer. Use absorbent material (e.g. sand, silica gel, vermikulit, acid binder, universal binder etc.), take up mechanically and dispose of appropriately.</p>									

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7. HANDLING AND STORAGE	<p>Ensure adequate ventilation, do not breathe vapours. Follow advice against fire and explosion. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Contact lenses are not recommended.</p> <p>May attack some plastics, rubber and coatings. Ground the container and transfer equipment to eliminate static electric sparks.</p> <p>Store in a cool, dry, well-ventilated place, protected from foreign odours. Keep separated from oxidizing substances, unsaturated oils, metal salts, and sources of direct heat or naked flames. Store dry in original packaging, shrink or stretch wrapped on pallets. Do not pile up. Pay attention to anti-explosion rules.</p> <p>Storage class (VCI): 3A</p> <p>Storing temperature: +1 - +25 degrees Celsius</p> <p>Storing Humidity: Below 80% Relative Humidity</p>																					
8. EXPOSURE CONTROLS / PERSONAL PROTECTION	<p>Exposure limit values (EH40)</p> <table border="1"><thead><tr><th>CAS Nr</th><th>Substance</th><th>ml/m³</th><th>mg/m³</th><th>F/ml</th><th>Category</th><th>Origin</th></tr></thead><tbody><tr><td>64-17-5</td><td>Ethanol</td><td>500</td><td>1000</td><td></td><td>TWA (8h)</td><td>WEL</td></tr><tr><td>64-17-5</td><td>Ethanol</td><td>1000</td><td>1920</td><td></td><td>STEL (15min)</td><td>WEL</td></tr></tbody></table> <p>Protection for respiratory tract: Use adequate protective respiratory equipment if necessary. Respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL). Filter classification A.</p> <p>Protection for eyes: In general, safety goggles are recommended.</p> <p>Protection for skin: Use clothing that provides comprehensive protection to the skin.</p> <p>Protection for hands: Recommended. Following directive 89/686/EEC and EN374. Nitril, butyl rubber</p>	CAS Nr	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin	64-17-5	Ethanol	500	1000		TWA (8h)	WEL	64-17-5	Ethanol	1000	1920		STEL (15min)	WEL
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9. PHYSICAL AND CHEMICAL PROPERTIES	<p>Appearance: Liquid, Hygroscopic</p> <p>Colour: Light to dark brown/red</p> <p>Smell: Whiskey character with vanilla and smoke</p> <p>Molecular weight: 46,07</p> <p>Boiling Point: ~78 °C (100% v/v Ethanol)</p> <p>pH: Neutral (6,9)</p> <p>Solubility: Soluble in water and most organic solvents</p> <p>Hazard identification:</p> <p>Ignition temperature: 420-425°C</p> <p>Explosion limits: Lower: 3,5% v/v ; Upper: 19% v/v</p> <p>Vapour pressure: 5,9 kPa (20 °C, 100% v/v Ethanol)</p> <p>Density: 0,948 kg/dm³ (20 °C, 40% v/v Ethanol)</p>																					

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10. STABILITY AND REACTIVITY	<p><u>Stability:</u> Avoid heat, sparks, flames. Normally stable. Will not polymerize</p> <p><u>Conditions to avoid</u> Reacts strongly with alkali metals, alkaline earths, oxidising agents (such as perchlorates, CrO₃, halogen oxides, peroxy compounds, perchloric acid, non-metallic oxides, nitric acid, KMnO₄, salts of halogen, oxyacids), halogen-halogen compounds, alkali oxides, non-metallic halides, anhydrides/ sodium acetate/ acids, ethylene oxide, fluorine, hydrides, mercury compounds, silver compounds, chromyl chloride, UF₆; Capable of exploding with air in a vaporous/gaseous stat.</p> <p>Avoid oxidizing substances, unsaturated oils, metal salts.</p> <p>Hazardous decomposition products: Carbon dioxide and carbon monoxide.</p>																
11. TOXICOLOGICAL INFORMATION	<p><u>Health Warning:</u> When concentration is more than 50%, ethanol causes local mucosal lesions through dehydration and albumin precipitation. Absorption, which occurs swiftly from the gastrointestinal tract, causes euphoria, with subsequent dizziness, inebriation, paralysis, diminished reflex, excitability, cyanosis, narcosis and respiratory paralysis. Dangerous intolerance reactions and increased absorption occur through the simultaneous action of disulfiram, trichloroethylene, tetra-chloromethane, nitrobenzene, carbon disulfide, aniline, lime-nitrogen, arsenic, lead and mercury. CNS depressant. Repeated exposure may cause chronic eye irritation. Defatting, drying and cracking of skin. Mild dermatitis, allergic skin rash. Swallowing concentrated chemical may cause severe internal injury.</p> <p><u>Medical Symptoms:</u> Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. Skin irritation. Nausea, vomiting.</p>																
11. TOXICOLOGICAL INFORMATION	<p><u>Medical Considerations:</u> Convulsive disorders, CNS problems.</p> <p><u>Toxic dose 1-LD50:</u></p> <table border="1"><thead><tr><th>Exposure</th><th>Value/Unit</th><th>Specie</th><th>Exposure time</th></tr></thead><tbody><tr><td>Oral LD50</td><td>7060 mg/kg</td><td>Rat (ethanol)</td><td></td></tr><tr><td>Dermal LD50</td><td>>20000 mg/kg</td><td>Rabbit (ethanol)</td><td></td></tr><tr><td>Respiratory LC50</td><td>>8000 mg/kg</td><td>Rat (ethanol)</td><td>4h</td></tr></tbody></table> <p>(corresponds to approx. 1,9cl/ kg 40% v/v, or 1,5litre for a 80kg person)</p>	Exposure	Value/Unit	Specie	Exposure time	Oral LD50	7060 mg/kg	Rat (ethanol)		Dermal LD50	>20000 mg/kg	Rabbit (ethanol)		Respiratory LC50	>8000 mg/kg	Rat (ethanol)	4h
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12. ECOLOGICAL INFORMATION	<p><u>Ethanol:</u> Fish LC50 (96h): 13480 mg/l P.promelas Daphnia magna EC50 (48h): 5400 mg/l Alge IC-50 (7d): 5000 ng/l Scenedesmus subspicatus Ethanol is biodegradable. No indication to bioaccumulation potential.</p> <p><u>Ethanol:</u> BOD₅/COD=0,4-0,8 BOD₁₀=65-74% of ThOD BCF:<10 Log P (o/w)<1</p>																
13. DISPOSAL CONSIDERATIONS	<p>Dispose of waste according to applicable local, state and federal regulations. Sweden: classified as hazardous waste (SFS 2001:1063) Waste group: 140105 (EWC)</p>																

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14. TRANSPORT INFORMATION	NOT Classified as dangerous for transport Transport temperature should be between +1 to + 25 degrees Celsius Transport Humidity should not be over 80% relative Humidity
15. REGULATORY INFORMATION <i>Persons under 18 years of age should not work with this product.</i>	15.1 Safety health and environmental regulations/legislation specific to substance or mixture. <i>This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.</i> <u>Approved code of practice:</u> <i>The Control of Substances Hazardous to Health</i> <u>Guidance notes:</u> <i>Occupational Exposure Limits EH40.</i>
16. OTHER INFORMATION UPDATED TO COMPLY WITH REGULATION (EC) NO. 1907/2006	<i>With the information given, which complies with our present knowledge and experience, we would like to describe our products in view of possible safety requirements; however we do not combine any warranty of product property or quality. Laws and regulations currently in force, have to be adhered by the user. Dosage according to Data Sheet and application and in accordance with current legislation.</i>

Date: February 13th 2017

This Safety Data Sheet information replaces all previous ones, latest of:: This computer generated Safety Data Sheet is valid without signature

*Safety Data Sheet validated by: Master Distiller Henric N Molin
Spirit of Hven Backafallsbyn*