Vantage	3	Safety Data Shee
Issuing Date 17-Jul-2015	Revision Date 17-Jul-2015	Revision Number
1. IDENTIFICATION OF TH	E SUBSTANCE/PREPARATION AND	OF THE COMPANY/UNDERTAKING
Product identifier Product Name	BIOACT® 105	Venergi-dardhir galvest. Anadir rowelling hospitality galve. "De processor hospitality of the firm
<u>Other means of identification</u> Product Code JN-No	PC105 UN3295	
Recommended use of the chemic Recommended Use Ises advised against	al and restrictions on use Technical cleaning solvent. FOR INDUSTRIAL USE ONLY	G
<u>Details of the supplier of the safe</u> Manufacturer Address	ty data sheet Vantage Specialties, Inc. 3938 Porett Drive Gurnee, IL 60031 USA 847-244-3410	es.
mergency Telephone Number Company Phone Number Emergency Telephone Number	+1-847-244-3410 CHEMTREC International +1-703-527-388 CHEMTREC USA: 1-800-424-9300	
	2. HAZARDS IDENTIEICATIC	DN
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kin corrosion/irritation erious eye damage/eye irritation kin sensitization pecific target organ toxicity (single	, is a second se	Category 2 Category 2A Category 1 Category 3
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kin corrosion/irritation berious eye damage/eye irritation kin sensitization pecific target organ toxicity (single spiration toxicity lammable Liquid and vapor abel Elements	, is a second se	Category 2 Category 2A Category 1 Category 3 Category 1
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BIOACT® 105

Color Colorless	Physical State Liquid	Odor Characteristic

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking Use only in a well ventilated area Wear eye/face protection Wear protective gloves Avoid breathing vapors or mists Take precautionary measures against static discharge Avoid release to the environment

Precautionary Statements - Response

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 advice/attention

IF ON SKIN: Rinse exposed skin with plenty of water. If skin irritation occurs: get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Get medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vaniting IN CASE OF FIRE: Use CO2, dry chemical, ABC fire extinguisher, or foam for extinction

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container in accordance with applicable regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Isoparaffinic Hydrocarbon	64742-48-9	30 - 60
Propylene glycol propyl ether	1569-01-3	30 - 60
D-Limonene	5989-27-5	10 - 30

4. FIRST AID MEASURES

FIRST AID MEASURES N EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. If irritation persists, call a physician. Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. DO NOT Ingestion induce vomiting. **Protection of First-aiders** Use personal protective equipment. Most important symptoms and effects, both acute and delayed Irritation or pain in contact with skin or eyes. Skin irritation, allergic reaction. Symptoms Indication of any immediate medical attention and special treatment needed Notes to Physician Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Hazardous combustion products

Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge

Protective equipment and precautions for firefighters

Dry chemical. Foam. Carbon dioxide. Water. Class ABC/BC fire extinguisher.

None identified.

Discarded towels or wipes soaked with solvent may smolder if not properly contained.

Carbon oxides.

None. Yes.



As in any fire, wear self-contained breathing apparatus pressure-demand, MSHANIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURE

Use personal protection recommended in Section 8.

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment, Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, ayes, and clothing.

For emergency responders

Environmental precautions

Environmental precautions

Prevent release to surface water.

Methods and material for containment and cleaning up.

Methods for Containment

Methods for Cleaning Up

Dike to colled large liquid spills. Avoid release to the environment.

Absorb with inert material and transfer to containers for disposal.

Keep away from open flames, hot surfaces and sources of ignition.

MANDLING AND STORAGE

Precautions for safe handling

Handling

Wear personal protective equipment. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Storage

Incompatible materials

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Manufacturer recommended exposure limit (8-hour TWA) for CAS 64742-48-9: 171 ppm, 1200 mg/m³.

Appropriate engineering controls

BIOACT® 105			Revision Date 17-Jul-201
Engineering Measures	Safety Shower Eyewash station Ventilation system.		
Individual protection measures,	such as personal protective e	equipment	
Eye/face Protection	Safety glasses with side-shields.		
Skin and Body Protection	Long sleeved clothing.		
Respiratory Protection	In case of inadequate vent	lation wear respiratory protection	~
Hygiene Measures	Handle in accordance with	good industrial hygiene and safe	ty practice
	9. PHYSICAL AND CHE	EMICAL PROPERTIES	-U
Information on basic physical an	d chemical properties	esperie	and the state of the state of the
Physical State	Liquid	Co	 Instrumenter e prozocio di
Appearance	Clear	Odor	Characteristic
Color	Colorless	Odor threshold	Not determined
Property	Values	Remarks · Method	and the second second
рН		Not Applicable	
Melting point/freezing point	> 150 °C / > 200 °F	Not determined	
Boiling point/boiling range Flash Point	> 150 °C / > 300 °F 41 °C / 105 °F	Closed cup	
Evaporation Rate	41 C / 105 F	Not determined	
Flammability (solid, gas)		Flammable liquid and	vapor
Flammability Limits in Air		Published data for d-	
Upper flammability limits	6.1%		Linohono
Lower Flammability Limit	0.7%		Strift Strift Proceediated
/apor pressure	1.5	mm Hg	
/apor Density	>1	(air = 1)	
Specific Gravity	0.8	A SALE AND	A COLORADO AND A COLORADO
Nater Solubility	Partially soluble		
Solubility in other solvents	pan en la port por la company	Not determined	
Partition coefficient	+	Not Applicable	
Autoignition Temperature	the barries of the barries was	Not determined	
Decomposition temperature		Not determined	
Kinematic viscosity	1.6.005	@ 25 °C Not determined	
Dynamic viscosity Explosive Properties	None	Not determined	
Oxidizing Properties	None		
oxidiality i reportioo			
Other Information	 Statute Statute Statute Statute 		
A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY			
1	10. STABILITY AI	ND REACTIVITY	
Reactivity Remarks	Not reactive		
Chemical stability	Stable under recommended	d storage conditions.	
ossibility of Hazardous Reactio	ns	-	
Hazardous Reactions	None under normal process	sing.	
Hazardous Polymerization	Hazardous polymerization of		
Conditions to Avoid	Keep away from open flame	es, hot surfaces and sources of ig	
ncompatible materials	Strong oxidizing agents.		
	Strong on alling agoilto.		

- Matrix Technological Services Pte Ltd. sales@matrixndtservixes.com Singapore 627607
- Singapore 62760

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Hazardous Decomposition Products

None identified.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause drowsiness and dizziness.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin. May cause sensitization by skin contact.
Ingestion	Potential for aspiration if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Isoparaffinic Hydrocarbon 64742-48-9	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	- sedenatils let ovall films	
Propylene glycol propyl ether 1569-01-3	= 2490 mg/kg (Rat) = 2504 mg/kg (Rat)	= 3550 mg/kg (Rabbit)	-	
D-Limonene 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	n hydrafel ar	

Information on toxicological effects

Symptoms

Swelling/redness in contact with skin or eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

 Skin corrosion/irritation
 Irritating to skin.

 Serious eye damage/eye irritation
 Irritating to eyes.

 Sensitization
 Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

 Mutagenic Effects
 No known hazard.

 Carcinogenicity
 No known hazard.

 Reproductive Toxicity
 No known hazard.

 Developmental Toxicity
 No known hazard.

Teratogenic STOT - single exposure

STOT - repeated exposure Aspiration hazard

Numerical measures of toxicity-Product Information

No known hazard. No known hazard. Inhalation of vapors may cause dizziness and drowsiness.

No known hazard. May be fatal if swallowed and enters airways.

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Isoparaffinic Hydrocarbon 64742-48-9		LC50= 2200 mg/L Pimephales promelas 96 h	22.V	result of some
D-Limonene 5989-27-5	÷.	LC50 (96h) 0.62 - 0.8 mg/L Pimephales promelas		LC50 (48h): 0.58 - 0.92 mg/ Daphnia magna

Persistence and degradability

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No data available.

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Bioaccumulation/Accumulation d-Limonene BCF: 683

Mobility Expected to partition to air.

Other Adverse Effects

None identified

13. DISPOSAL CONSIDERATIONS

Waste treatment methods Waste Disposal Method Contaminated Packaging US EPA Waste Number

Description

Dispose of in accordance with applicable regulations. Dispose of in accordance with applicable regulations. D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemica	I Name	California Hazardo	
D-Limonene 5989-27-5		Toxic	
	14. TRANSPORT INFOR	MATION	
тот	\sim		
UN-No	UN3295		n system has a state
Proper Shipping Name	Hydrocarbons, Liquid, N.O.S.		and Shares and Shares
Hazard Class	3		
Packing Group		when chinned cololy by	
Special Provisions	Exempt from regulation by US DOT	when shipped solely by	and in containers less than
	119 gallone		
TDG			
UN-No	UN8295		
Proper Shipping Name	Hydroparbons, Liquid, N.O.S.		
Hazard Class	3		
Packing Group			
UN-No	◆ UN3295		
Proper Shipping Name	Hydrocarbons, Liquid, N.O.S.		
Hazard Class	3		
Packing Group	III		
MDG / IMO			
UN-No	UN3295		
Proper Shipping Name	Hydrocarbons, Liquid, N.O.S.		
Hazard Class	3 		
Packing Group Marine Pollutant	Yes		
Marine Pollutant	100		

which an and the second second

d-Limonene

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15. REGULATORY INFORMATION

International Inventories	IS. REGULATOR	the second se
TSCA		
DSL	Complies	
EINECS	Complies	
ENCS	Complies	
IECSC	Complies	
KECL	Complies	
PICCS	Complies	
AICS	Complies	

Legend

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemical Substances

 AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1936 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard Chronic Health Hazard Fire hazard Sudden release of pressure hazard Reactive Hazard

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 2	Instability 0	Physical and Chemical Hazards n/a
HMIS	Health Hazard 1	Flammability 2	Physical hazards 0	Personal Precautions B
Prepared by	Product	Steward		
Issuing Date	17-Jul-2	015		
Revision Date	17-Jul-20	015		
Revision Note				
Reason for Revision	Update t	o supplier identity/logo Ur	date to ingestion hazard res	ponse
Disclaimer				

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS

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