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Revision Date 17-Feb-2016

Revision Number 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name BIOACT® 105 Pre-Saturated Wipes

Other means of identification

Product Code BIOACT105W

UN-No UN3175

Recommended use of the chemical and restrictions on use

Recommended Use Technical cleaning.

Uses advised against FOR INDUSTRIAL USE ONLY

Details of the supplier of the safety data sheet

Manufacturer Address Vantage Specialties, Inc.
3938 Porett Drive
Gurnee, IL 60031 USA
847-244-3410

Emergency Telephone Number

Emergency Telephone Number CHEMTREC International +1-703-527-3887
CHEMTREC USA: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable Liquid and vapor	Category 3

Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements

Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness
May cause an allergic skin reaction
May be fatal if swallowed and enters airways
Very toxic to aquatic life with long lasting effects
Flammable liquid and vapor



Color Colorless (solvent)	Physical State Saturated wipe	Odor Characteristic
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Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Use only in a well ventilated area
 Wear protective gloves
 Wear eye/face protection
 Avoid breathing vapors or mists
 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: wash with soap and water
 If skin irritation or rash 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: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.
 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

Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, call a physician.
Skin contact	IF ON SKIN: Wash with soap and water. If irritation or rash occurs, get medical attention.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.
Protection of First-aiders	Use personal protective equipment.

Most important symptoms and effects, both acute and delayed

Symptoms Skin irritation, allergic reaction.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media

None identified.

Specific hazards arising from the chemical

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

Hazardous combustion products

Carbon oxides.

Explosion DataSensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency proceduresPersonal Precautions

Wear protective gloves. Ensure adequate ventilation. Remove all sources of ignition.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautionsEnvironmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning upMethods for Cleaning Up

Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handlingHandling

Wear protective gloves while using this product. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilitiesStorage

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

Incompatible materials

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parametersExposure Guidelines

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

Appropriate engineering controlsEngineering Measures

Safety Shower
Eyewash station
Ventilation system.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses with side-shields.
Skin and Body Protection	Use nitrile, PVC, laminate, or viton gloves. DO NOT wear natural rubber gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Saturated wipe	Odor	Characteristic
Appearance	White (towelette)	Odor threshold	Not determined
Color	Colorless (solvent)		
Property	Values	Remarks • Method	
pH		Not Applicable	
Melting point / freezing point		Not determined	
Boiling point/boiling range	> 150 °C / > 300 °F	Solvent	
Flash Point	41 °C / 105 °F	CC (closed cup)	
Evaporation Rate		Not determined	
Flammability (solid, gas)		Flammable liquid and vapor	
Flammability Limit in Air		Not determined	
Upper flammability limit			
Lower Flammability Limit			
Vapor pressure		Not determined	
Vapor Density	>1	(air = 1)	
Specific Gravity	0.8	Solvent	
Water Solubility	Partially soluble		
Solubility in other solvents		Not determined	
Partition coefficient		Not Applicable	
Autoignition Temperature		Not determined	
Decomposition temperature		Not determined	
Kinematic viscosity	1.6 cps @ 25°C	Solvent	
Dynamic viscosity		Not determined	
Explosive Properties	None		
Oxidizing Properties	None		

Other Information

10. STABILITY AND REACTIVITY

Reactivity	Not reactive
Remarks	
Chemical stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	
Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Strong oxidizing agents.
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)	.
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)	-

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 Contains no listed human carcinogens at greater than 0.1%.

Chemical Name	ACGIH	IARC	NTP	OSHA
D-Limonene 5989-27-5		Group 2A		X

Reproductive Toxicity No known hazard.

Developmental Toxicity No known hazard.

STOT - single exposure Inhalation of vapors may cause dizziness and drowsiness.

STOT - repeated exposure No known hazard.

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity-Product Information 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		
D-Limonene 5989-27-5		LC50= 35 mg/L Oncorhynchus mykiss 96 h LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h		LC50 (48h): 0.58 - 0.92 mg/l Daphnia magna

Persistence and degradability

No data available.

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** Dispose of in accordance with applicable regulations.**Contaminated Packaging** Dispose of in accordance with applicable regulations.

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

Chemical Name	California Hazardous Waste Status
D-Limonene 5989-27-5	Toxic

14. TRANSPORT INFORMATION**DOT**

UN-No	UN3175
Proper Shipping Name	Solids containing flammable liquids, N.O.S. (1-propoxy 2-propanol, mixed hydrocarbons)
Hazard Class	4.1
Packing Group	II

TDG

UN-No	UN3175
Proper Shipping Name	Solids containing flammable liquids, N.O.S. (1-propoxy 2-propanol, mixed hydrocarbons)
Hazard Class	4.1
Packing Group	II

ICAO

UN-No	Not regulated
Proper Shipping Name	UN3175
Hazard Class	Solids containing flammable liquids, N.O.S. (1-propoxy 2-propanol, mixed hydrocarbons)
Packing Group	4.1
	II

IATA

UN-No	UN3175
Proper Shipping Name	Solids containing flammable liquids, N.O.S. (1-propoxy 2-propanol, mixed hydrocarbons)
Hazard Class	4.1
Packing Group	II

IMDG / IMO

UN-No	UN3175
Proper Shipping Name	Solids containing flammable liquids, N.O.S. (1-propoxy 2-propanol, mixed hydrocarbons)
Hazard Class	4.1
Packing Group	II
Marine Pollutant	No, This product contains less than 5L liquid per inner packaging (IMDG 2.10.2.7)

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
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/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European 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 Chemicals and 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 1986 (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	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

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

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

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

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 1	Flammability 2	Instability 0	Physical and Chemical Hazards n/a
<u>HMIS</u>	Health Hazard 1	Flammability 2	Physical hazards 0	Personal Precautions B
Prepared by	Product Steward			
Issuing Date	17-Feb-2016			
Revision Date	17-Feb-2016			

Revision Note**Reason for Revision**

Updated transportation information.

Disclaimer

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 Safety Data Sheet

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