SAFETY DATA SHEET

Issuing Date 13-Jul-2015 **Revision Date** 13-Jul-2015 **Revision Number** 1

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

Product identifier

Product Name 90010 BLACK 100 BLOCKS BULK

Other means of identification

Product Code(s) 8093430

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Uses advised against No information available

MARKEM-IMAJE USA
100 Chastain Center Blvd
Suite 165

Kennesaw, GA 30144 - USA
Phone: 770-421-7700
Fax: 770-421-7702

Details of the supplier of the safety data sheet

Supplier Address
Markem-Imaje
150 Congress St. PO Box 2100
Keene, NH 03431
(603) 352-1130

Emergency telephone number

Chemical Emergency Phone Number Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

Emergency Telephone Number In case of emergency call CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

GHS Label elements, including precautionary statements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Color Black **Physical State** Solid **Odor** Characteristic

Hazards not otherwise classified (HNOC)
No information available

Other information

- May be harmful if swallowed
- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Resin acids and Rosin acids, hydrogenated, esters with glycerol	65997-13-9	30 - 40

4. FIRST AID MEASURES

First aid measures

General Advice No hazards which require special first aid measures.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician

Skin Contact Wash skin with soap and water

Inhalation Move to fresh air

Ingestion Clean mouth with water and afterwards drink plenty of water

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO2). Dry powder. Use:. Water spray. Alcohol-resistant foam.

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 procedures

Personal Precautions Ensure adequate ventilation

Environmental precautions

Environmental Precautions Beware of vapors accumulating to form explosive concentrations.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry, cool and well-ventilated place.

Incompatible Products Incompatible with oxidizing agents. Incompatible with strong acids and bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines .

NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v.

Engineering Measures In case of insufficient ventilation wear suitable respiratory equipment. Use only in area provided with appropriate exhaust ventilation.

Personal Protective Equipment

Eye/Face Protection No special protective equipment required

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Color	Black .	**Odor**	Characteristic.
Physical State	Solid	**pH**	Not determined
Flash Point	338°F / 170°C	**Boiling Point/Range**	Not determined
Autoignition Temperature	Not determined	**Melting Point/Range**	Not determined
Flammability Limits in Air	Not determined	**Explosion Limits**	Not determined
Specific Gravity	1.04	**Solubility**	Not determined
Evaporation Rate	Not determined	**Vapor Pressure**	Not determined
Vapor Density	Not determined	**Liquid Density**	8.679216
VOC Content(%)	Not determined	**VOC (lb/gal)**	3.2631494125
VOC (g/l)	391.01153487		

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials
Incompatible with oxidizing agents. Incompatible with strong acids and bases.

Hazardous Decomposition Products
Carbon monoxide. Carbon dioxide (CO_2).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

Inhalation There is no data available for this product

Eye Contact There is no data available for this product

Skin Contact There is no data available for this product

Ingestion There is no data available for this product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Resin acids and Rosin acids, hydrogenated, esters with glycerol 65997-13-9	> 2000 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available

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

Sensitization No information available
Mutagenic Effects No information available
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Resin acids and Rosin acids, hydrogenated, esters with glycerol 65997-13-9	-	No information available	-	-

IARC: (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive Toxicity No information available
Specific target organ systemic toxicity (single exposure) No information available
Specific target organ systemic toxicity (repeated exposure) No information available
Target Organ Effects Respiratory system , Eyes, Skin.
Aspiration hazard No information available

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 2128 mg/kg
ATEmix (dermal) 99999
ATEmix (inhalation-gas) 99999
ATEmix (inhalation-dust/mist) 99999
ATEmix (inhalation-vapor) 99999

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Resin acids and Rosin acids, hydrogenated, esters with glycerol 65997-13-9	.?	-		-

Persistence and Degradability
No information available

Bioaccumulation
No information available

Chemical Name	Log Pow
Resin acids and Rosin acids, hydrogenated, esters with glycerol 65997-13-9	None known

Other Adverse Effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Dispose of in accordance with local regulations Can be incinerated, when in compliance with local regulations

14. TRANSPORT INFORMATION

IATA Not regulated

IMDG/IMO Not regulated

ADR Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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	No
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

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)

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

International Regulations

Mexico - Grade Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

16. OTHER INFORMATION

NFPA	**Health Hazard** 1	**Flammability** 1	**Reactivity** -
HMIS	**Health Hazard** 1	**Flammability** 1	**Reactivity** 0

Personal Protection X

Prepared By
Environmental and Safety Department
150 Congress St. PO Box 2100.
Keene, NH 03431
(603) 352-1130

Issuing Date 13-Jul-2015
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General Disclaimer
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication

End of Safety Data Sheet