

SAFETY DATA SHEET

Issuing Date 14-Jan-2016

Revision Date 14-Jan-2016

Revision Number 3

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

Product identifier

Product Name 7132 BLACK

Other means of identification

Product Code(s) 8047811

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use Printing ink.

Uses advised against No information available

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

MARKEM-IMAJE USA
100 Chastain Center Blvd
Suite 165
Kennesaw, GA 30144 - USA
Phone: 770-421-7700
Fax: 770-421-7702

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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1

GHS Label elements, including precautionary statements

Emergency Overview

Danger**Hazard statements**

May cause an allergic skin reaction

May cause genetic defects

May cause cancer

Causes damage to organs through prolonged or repeated exposure

**Color** Black Opaque**Physical State** Liquid**Odor** Characteristic**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

Get medical advice/attention if you feel unwell

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No information available

Other information

- May be harmful in contact with skin
- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature of the Preparation Mixture of solvents, polymers, colorants and additives.

Chemical Name	CAS-No	Weight %
Carbon black	1333-86-4	10 - 20
Stoddard solvent	8052-41-3	1 - 5
Silica, amorphous	7631-86-9	1 - 5
Diethylene glycol monobutyl ether	112-34-5	1 - 5

Cobalt 2-Ethylhexanoate	136-52-7	1 - 5
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4. FIRST AID MEASURES

First aid measures

General Advice

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye Contact

Immediately flush with plenty of water. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Consult a physician if necessary. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation

Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin.

Ingestion

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

Protection of First-aiders

Use personal protective equipment.

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

Dry chemical. Alcohol-resistant foam. Carbon dioxide (CO₂). Water spray.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. 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. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for Cleaning Up

Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible Products

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Carbon black 1333-86-4	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Silica, amorphous 7631-86-9	-	(vacated) TWA: 6 mg/m ³ <1% Crystalline silica TWA: 20 mppcf : (80)/(%) SiO ₂ mg/m ³ TWA	IDLH: 3000 mg/m ³ TWA: 6 mg/m ³
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min TWA: 350 mg/m ³

NIOSH IDLH: Immediately Dangerous to Life or Health.

S*: Skin Notation

Other Exposure Guidelines

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

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Use only in area provided with appropriate exhaust ventilation.

Personal Protective Equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin and Body Protection

Impervious gloves. Impervious clothing.

Respiratory Protection

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

Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.



Glasses



Gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Color	Black , Opaque.	Odor	Characteristic.
Physical State	Liquid	pH	
Flash Point	235°F / 113°C	Boiling Point/Range	240°C / 464°F
Autoignition Temperature	201°C / 394°F	Melting Point/Range	Not determined
Flammability Limits in Air		Explosion Limits	Not determined
Upper	24.6%	Upper	24.6
Lower	0.8%	Lower	0.8
Specific Gravity	1.08	Solubility	Not determined
Evaporation Rate	Not determined	Vapor Pressure	Not determined
Vapor Density	Not determined	Liquid Density	9.013032
VOC Content(%)	11.5213	VOC (lb/gal)	7.3762602829
VOC (g/l)	883.87091432		

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to avoid

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

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO₂). Carbon monoxide. Hydrocarbons. Cobalt.

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
Diethylene glycol monobutyl ether 112-34-5	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
Carbon black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Silica, amorphous 7631-86-9	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>2.2 mg/L (Rat) 4 h
Stoddard solvent 8052-41-3	500	-	-

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. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Diethylene glycol monobutyl ether 112-34-5	-	No information available	-	-
Carbon black 1333-86-4	A3	Group 2B	-	X
Silica, amorphous 7631-86-9	-	Group 3	-	-
Stoddard solvent 8052-41-3	-	No information available	-	-

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

At the time of printing of this MSDS, available epidemiologic, toxicological and mechanistic data on Carbon Black, does not support an increased risk of cancer in exposed 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

Chronic Toxicity

Prolonged exposure may cause chronic effects. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. Contains a known or suspected reproductive toxin.

Target Organ Effects

Eyes, Skin, Blood, Liver, Kidney, Heart, Central nervous system (CNS), Gastrointestinal tract (GI), Respiratory system, Pancreas, Lymphatic System, Hematopoietic system, Reproductive system, Respiratory system.

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)	9308 mg/kg
ATEmix (dermal)	4752 mg/kg
ATEmix (inhalation-gas)	99999

ATEmix (inhalation-dust/mist) 89235 mg/L
 ATEmix (inhalation-vapor) 99999
 9971.4805
 mg/kg (rat)
 5484.4399
 mg/kg (rat)
 62.1391
 ml/m³ vapor

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Carbon black 1333-86-4	.?	-		5600: 24 h Daphnia magna mg/L EC50
Stoddard solvent 8052-41-3	.?	-		-
Silica, amorphous 7631-86-9	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	5000: 96 h Brachydanio rerio mg/L LC50 static		7600: 48 h Ceriodaphnia dubia mg/L EC50
Diethylene glycol monobutyl ether 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static		2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50
Cobalt 2-Ethylhexanoate 136-52-7	.?	-		-

Persistence and Degradability

No information available

Bioaccumulation

No information available

Chemical Name	Log Pow
Carbon black 1333-86-4	None known
Stoddard solvent 8052-41-3	None known
Silica, amorphous 7631-86-9	None known
Diethylene glycol monobutyl ether 112-34-5	0.56
Cobalt 2-Ethylhexanoate 136-52-7	None known

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA

Not regulated

14. TRANSPORT INFORMATION

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Diethylene glycol monobutyl ether	112-34-5	1.91834	1.0(as Glycol ethers)

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

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

The following chemicals in this product are known to the State of California to cause cancer or are reproductive hazards This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
2-Ethoxyethanol	110-80-5	Developmental Male Reproductive
Carbon black	1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	Pennsylvania	Illinois	Rhode Island
Carbon black	X	X	X	
Stoddard solvent	X	X		
Silica, amorphous	X	X		

Chemical Name	Massachusetts	Pennsylvania	Illinois	Rhode Island
Diethylene glycol monobutyl ether		X(as Glycol ethers)	X(as Glycol ethers)	
Cobalt 2-Ethylhexanoate		X	X	

Chemical Name	New Jersey
Carbon black	X
Silica, amorphous	X
Stoddard solvent	X
Cobalt 2-Ethylhexanoate	X

International Regulations

Mexico - Grade

Minimum risk, Grade 0

Chemical Name	Carcinogen Status	Exposure Limits
Carbon black		Mexico: TWA 3.5 mg/m ³ Mexico: STEL 7 mg/m ³
Stoddard solvent		Mexico: TWA 100 ppm Mexico: TWA 523 mg/m ³ Mexico: STEL 200 ppm Mexico: STEL 1050 mg/m ³

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

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

NFPA

Health Hazard 2

Flammability 1

Reactivity -

HMIS

Health Hazard 2

Flammability 1

Reactivity 0

Personal Protection X

Prepared By

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Issuing Date

14-Jan-2016

Revision Note

No information available

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