Spectrum Brands, Inc. Rayovac Division 3001 Deming Way Middleton, WI 53562-1431 Phone: (608) 275-3340 Fax: (608) 275-4577 http://www.rayovac.com



SAFETY DATA SHEET

The Safety Data Sheet is supplied as a service to you. For other related information, please visit: <u>http://www.rayovac.com</u>

1. IDENTIFICATION

PRODUCT NAME:	Alkaline Battery Mercury Free
SIZES:	All sizes
EMERGENCY HOTLINE:	800-424-9300 (24 hr, Chemtrec)
EDITION DATE:	07/01/2017

2. HAZARD IDENTIFICATION

We would like to inform our customers that these batteries are exempt articles and are not subject to the 29 CFR 1910.1200 OSHA requirements, Canadian WHMIS requirements or GHS requirements.

Emergency Overview

OSHA Hazards-not applicable Target Organs-not applicable GHS Classification-not applicable GHS Label Elements, including precautionary Statement-not applicable Pictogram-not applicable Signal words-not applicable Hazard statements-not applicable Precautionary statements-not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS #	%	TLV*/**TWA	
Manganese Dioxide	1313-13-9	32-38	C5.0 mg/m ³	
Steel	7439-89-6	19-23		
Zinc	7440-66-6	11-16	5 mg/m ³ (as ZnO Fume)	
Potassium Hydroxide	1310-58-3	5-9	Solution Not Listed	
Graphite	7782-42-5	3-5	15 mppcf	
Barium Sulfate	7727-43-7	<5	15 mg/m ³	
Water, paper, plastic, other		Balance		
*Source: OSHA 29 CFR 1910.1000 Table Z-1, 2 or 3 11-01-2012				

4. FIRST AID INFORMATION

THRESHOLD LIMIT VALUE (TLV) AND SOURCE: EFFECTS OF OVEREXPOSURE:

None in normal use

NA

EMERGENCY FIRST AID PROCEDURES:

Skin and Eyes:

Do not pick up a shorting battery as it may cause a burn. Get immediate medical attention when eyes may have been exposed to battery contents from a ruptured battery. Wash skin with soap and water.

Swallowing:

If you or your doctor suspects that a battery has been ingested-for assistance in the US call the NATIONAL BATTERY INGESTION HOTLINE any time at (202) 625-3333: in Canada call 416-813-5900.

For more information, please visit:

http://www.nema.org/Policy/Environmental-Stewardship/Documents/batteryingest.pdf

5. FIRE FIGHTING MEASURES

FLASH POINT:	NA
LOWER (LEL):	NA
FLAMMABLE LIMITS IN AIR (%):	NA
UPPER (UEL):	NA
EXTINGUISHING MEDIA:	Use water, foam, or dry powder as
	appropriate.
AUTO-IGNITION:	NA

SPECIAL FIRE FIGHTING PROCEDURES: As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products (See section 2).

SPECIAL FIRE OR EXPLOSION HAZARDS: DO NOT RECHARGE. As a typical sealed battery they may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.

6. ACCIDENTAL RELEASE MEASURES

TO CONTAIN AND CLEAN UP LEAKS OR SPILLS: In the event of a battery rupture, prevent skin contact and collect all released material in a plastic lined metal container.

REPORTING PROCEDURE: Report all spills in accordance with Federal, State and Local reporting requirements.

7. HANDLING AND STORAGE

Store batteries in a dry place. Storing unpackaged cells together with other combustible materials could result in cell shorting and heat build-up. Do not recharge. Do not puncture or abuse.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):			
VENTILATION:	VENTILATION: Local Exhaust:		
	Mechanical (General):	NA	
	Special:	NA	
	Other:	NA	
PROTECTIVE GLOV	VES:	NA	
EYE PROTECTION:		NA	
OTHER PROTECTIVE CLOTHING:			

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point @ 760 mm Hg (°C):	NA	Percent Volatile by Volume (%):	NA	
Vapor Pressure (mm Hg @ 25°C):	NA	Evaporation Rate (Butyl Acetate = 1): N		NA
Vapor Density (Air = 1):	NA	Physical State:		NA
Density (grams/cc):	NA	Solubility in Water (% by Weight):		NA
pH:	NA	Appearance and Odor: Geometric sol		lid object

10. STABILITY AND REACTIVITY

STABLE OR UNSTABLE:	Stable
INCOMPATIBILITY (MATERIALS TO AVOID):	NA
HAZARDOUS DECOMPOSITION PRODUCTS:	NA
DECOMPOSITION TEMPERATURE (0°F):	NA
HAZARDOUS POLYMERIZATION:	Will Not Occur
CONDITIONS TO AVOID:	Avoid electrical shorting, puncturing or deforming

11. TOXICOLOGICAL INFORMATION

INGREDIENT NAME	CAS #	%	TLV*/**TWA
Manganese Dioxide	1313-13-9	32-38	C5.0 mg/m ³
Steel	7439-89-6	19-23	
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Water, paper, plastic, other		Balance	

*Source: OSHA 29 CFR 1910.1000 Table Z-1, 2 or 3 11-01-2012

12. ECOLOGICAL INFORMATION

Consumers should dispose of discharged batteries through waste disposal services or legitimate collection outlets. Those collecting batteries should follow state and federal regulations. Partially discharged damaged batteries can overheat and cause fires in the presence of other combustible materials.

13. DISPOSAL CONSIDERATIONS

Always comply with Federal, state or local requirements. All Rayovac Alkaline batteries have been tested per Federal hazardous waste testing requirements (TCLP). The TCLP tests show Rayovac alkaline batteries are not hazardous waste.

http://www.nema.org/Policy/Environmental-Stewardship/Documents/Companies%20Claiming%20to%20Recycle.MARCH2005.pdf

14. TRANSPORTATION INFORMATION

TRANSPORTATION-SHIPPING: Alkaline Batteries are considered dry-cell batteries and they are nondangerous goods for transportation. These batteries must be packed in a way to prevent short circuits or generation of a dangerous quantity of heat.

USDOT – See Special Provision 130.

IMO/Ocean – Not Listed.

ICAO/IATA – See Special Provision A123. This special provision also states to put the words "not restricted" and "special provision A123" on the air waybill when an air waybill is issued.

15. REGULATORY INFORMATION

SARA 313: Notification is not required because these products are article(s) that do not release a covered toxic chemical under the normal conditions of storage, use, or handling.

16. OTHER INFORMATION

The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Spectrum Brands Inc. (Rayovac) makes no warranty expressed or implied.

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None in normal use

NA

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Skin and Eyes:

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For more information, please visit:

http://www.nema.org/Policy/Environmental-Stewardship/Documents/batteryingest.pdf

5. FIRE FIGHTING MEASURES

FLASH POINT:	NA
LOWER (LEL):	NA
FLAMMABLE LIMITS IN AIR (%):	NA
UPPER (UEL):	NA
EXTINGUISHING MEDIA:	Use water, foam, or dry powder as
	appropriate.
AUTO-IGNITION:	NA

SPECIAL FIRE FIGHTING PROCEDURES: As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products (See section 2).

SPECIAL FIRE OR EXPLOSION HAZARDS: DO NOT RECHARGE. As a typical sealed battery they may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.

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7. HANDLING AND STORAGE

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8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):			
VENTILATION:	VENTILATION: Local Exhaust:		
	Mechanical (General):	NA	
	Special:	NA	
	Other:	NA	
PROTECTIVE GLOV	VES:	NA	
EYE PROTECTION:		NA	
OTHER PROTECTIVE CLOTHING:			

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point @ 760 mm Hg (°C):	NA	Percent Volatile by Volume (%):	NA	
Vapor Pressure (mm Hg @ 25°C):	NA	Evaporation Rate (Butyl Acetate = 1): N		NA
Vapor Density (Air = 1):	NA	Physical State:		NA
Density (grams/cc):	NA	Solubility in Water (% by Weight):		NA
pH:	NA	Appearance and Odor: Geometric sol		lid object

10. STABILITY AND REACTIVITY

STABLE OR UNSTABLE:	Stable
INCOMPATIBILITY (MATERIALS TO AVOID):	NA
HAZARDOUS DECOMPOSITION PRODUCTS:	NA
DECOMPOSITION TEMPERATURE (0°F):	NA
HAZARDOUS POLYMERIZATION:	Will Not Occur
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	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
	according to Canadian Hazardous Products Regulations (HPR)
LA-CO Industries, Inc.	Date of issue: 10/07/2015
141 CO muusu ics, me.	Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Prod	uct identifier	
Product form		: Mixture
Wal Whi		: Polishing Block Large Blue, Large White, Small White; Carpenter's Chalk Blue, White; Walbuck® Railroad Chalk Black, Blue, Brown, Cherry, Green, Orange, Pink, Purple, Sky Blue, White, Extra Black, Yellow; Fluorescent Scanning Chalk Green, Magenta, Orange, Purple, Yellow Green
1.2. Rele	vant identified uses of t	ne substance or mixture and uses advised against
Use of the subs	stance/mixture	: Marking.
1.3. Deta	ils of the supplier of the	safety data sheet
LA-CO Industri 1201 Pratt Bou	1	

1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746 Phone: (847) 956-7600 Fax: (847) 956-9885 E-mail: customer_service@laco.com



1.4. Emergency telephone number

Emergency number

: 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with the Globally Harmonized Standard

Carc. 1A H350

Full text of hazard classes and H-statements : see section 16

2.2 Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)

: Danger

- : H350 May cause cancer
- : P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves
 - P308+P313 If exposed or concerned: Get medical advice/attention
 - P405 Store locked up
 - P501 Dispose of contents/container to an authorised waste collection point

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

2.3. Other hazards

2.4 Unknown acute toxicity (GHS US)

22.29 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 22.29 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 22.29 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% (w/w)	GHS-US classification
Silicon dioxide (cristobalite)	(CAS No) 14808-60-7	 0.5 - 1.5 Railroad White, Sky Blue, Purple; Carpenter's White 0.4 - 1.84 Railroad Yellow, Black 0.47 - 1.42 Railroad Extra Black 0.5 - 1.49 Railroad Blue, Pink; Carpenter's Blue 0.49 - 1.48 Railroad Green, Cherry 0.49 - 1.47 Railroad Orange; Fl Scanning Yellow Green, Green, Purple 0.55 - 1.53 - Railroad Brown 0.49 - 1.46 Fl Scanning Magenta, Orange 	Carc. 1A, H350

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Gently wash with plenty of soap and water.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water.
First-aid measures after ingestion	: Drink plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and	effects, both acute and delaved

Symptoms/injuries after inhalation : May cause cancer by inhalation.

Symptoms/injuries after eye contact : May cause slight irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the sul	bstance or mixture
Fire hazard	: Burning produces irritating, toxic and noxious fumes.
Explosion hazard	: Product is not explosive.
Reactivity	: No dangerous reactions known.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures : Avoid creating or spreading dust. General measures 6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable gloves.
Emergency procedures	: Ventilate area.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable gloves.
Emergency procedures	: Stop leak if safe to do so

Emergency procedures

6.2. **Environmental precautions**

Avoid release to the environment.

6.3.	Methods and material for containment and cleaning up		
For cont	ainment	:	Contain and collect as any solid. Avoid generating dust.
Methods	for cleaning up	:	Wipe up with absorbent material (for example cloth). Sweep spilled substance into containers; if
			appropriate, moisten first to prevent dusting.

6.4. Reference to other sections

Section 8: personal protective equipment.

SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Hygiene measures : Do not eat, drink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities Incompatible materials : Heat sources. Storage area : Store in dry, cool, well-ventilated area. 7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Polishing Block Large Blue, Large White, Small White; Carpenter's Chalk Blue, White; Walbuck® Railroad Chalk Black, Blue, Brown, Cherry, Green, Orange, Pink, Purple, Sky Blue, White, Extra Black, Yellow; Fluorescent Scanning Chalk Green, Magenta, Orange, Purple, Yellow Green						
ACGIH	Not applicable	Not applicable				
OSHA	Not applicable	Not applicable				
Silicon dioxide (cristobal	ite) (14808-60-7)					
ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³				
ACGIH	Remark (ACGIH)	(respirable dust)				
OSHA	OSHA PEL (TWA) (ppm)	250 mppcf				
OSHA	Remark (OSHA)	(3) See Table Z-3.				
Canada (Quebec)	VEMP (mg/m ³)	0.1 mg/m ³				
Canada (Quebec)	Notations and remarks (la poussière respirable), (C2)					

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Use rubber gloves.
Eye protection	: None under normal use.
Respiratory protection	: None under normal use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

3.1.	information on basic physical and		inical properties
Physical	state	:	Solid
Appeara	ince	:	A solid crayon-like marker.
Colour		:	red.
Odour		:	odourless.
Odour th	nreshold	:	No data available
рН		:	No data available
Relative	evaporation rate (butyl acetate=1)	:	No data available
Melting p	point	:	No data available
Freezing	g point	:	No data available
Boiling p	point	:	No data available
Flash po	bint	:	No data available
Auto-ign	ition temperature	:	No data available
Decomp	osition temperature	:	No data available
Flamma	bility (solid, gas)	:	No data available
Vapour p	pressure	:	No data available
Relative	vapour density at 20 °C	:	No data available
Relative	density	:	No data available
Solubility	Ý	:	No data available
Log Pow	/	:	No data available
Log Kow	/	:	No data available
Viscosity	y, kinematic	:	No data available
Viscosity	y, dynamic	:	No data available
Explosive properties		:	No data available
Oxidising	g properties	:	No data available
Explosiv	e limits	:	No data available
9.2.	Other information		

: 0%

SECTION 10: Stability and reactivity

10.1. Reactivity

VOC content

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid Heat.

10.5. Incompatible materials None known.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO2).

Safety Data Sheet

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SECTION 11: Toxicological information

1.1. Information on toxicological effects				
Acute toxicity : Not classified				
Skin corrosion/irritation : Not classified				
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: May cause cancer.			
Silicon dioxide (cristobalite) (14808-60-7)				
IARC group	1 - Carcinogenic to humans, Inhalation of dust			
Reproductive toxicity	: Not classified			
Specific target organ toxicity (single exposure)	: Not classified			
Specific target organ toxicity (repeated exposure)	an toxicity (repeated : Not classified			
Aspiration hazard	Aspiration hazard : Not classified			
Potential adverse human health effects and	Potential adverse human health effects and symptoms			
Symptoms/injuries after inhalation	oms/injuries after inhalation : May cause cancer by inhalation.			
Symptoms/injuries after eye contact	contact : May cause slight irritation.			
Likely routes of exposure	: Inhalation;Skin and eye contact			
SECTION 12: Ecological informatio	n			

SECTION 12: Ecological information

12.1	IOXICITY	

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal recommendations	:	Do no
Waste disposal recommendations	:	Dispo

Do not dispose of waste into sewer.Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information	SECTION 14: Transport information			
In accordance with DOT and TDG				
Not considered a dangerous good for trans	port regulations			
Proper Shipping Name (ADR)	: Not applicable			
Transport hazard class(es) (ADR)	:			
Transport by sea				
Transport hazard class(es) (IMDG)	:			
Air transport				
Transport hazard class(es) (IATA)	:			

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SECTION 15: Regulatory information

15.1. US Federal regulations

Silicon dioxide (cristobalite) (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Silicon dioxide (cristobalite) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

Silicon dioxide (cristobalite) (14808-60-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Polishing Block Large Blue, Large White, Small White; Carpenter's Chalk Blue, White; Walbuck® Railroad Chalk Black, Blue, Brown, Cherry, Green, Orange, Pink, Purple, Sky Blue, White, Extra Black, Yellow; Fluorescent Scanning Chalk Green, Magenta, Orange, Purple, Yellow Green All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS). All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL). All ingredients are listed in the Toxic Substances Control Act (TSCA).

15.3. US State regulations

Silicon dioxide (cristobalite) (14808-60-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

Indication of changes	: Original Document.
Data sources	: ACGIH (American Conference of Governement Industrial Hygienists).
	European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <u>http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</u> .
	Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
	National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
	OSHA 29CFR 1910.1200 Hazard Communication Standard.
	TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.
Abbreviations and acronyms	: ATE: Acute Toxicity Estimate. CAS (Chemical Abstracts Service) number.
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population.
	OSHA: Occupational Safety & Health Administration.
	PBT: Persistent, Bioaccumulative, Toxic.
	TWA: Time Weight Average.
	TSCA: Toxic Substances Control Act.
Other information	: None.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.	
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.	

Full text of H-statements:

~~~		
	Carc. 1A	Carcinogenicity, Category 1A
	H350	May cause cancer

SDS Prepared by: The Redstone Group, LLC 6077 Frantz Rd. Suite 206 Dublin, OH USA 43016 T 614-923-7472 www.redstonegrp.com

#### LACO NA GHS SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

12/09/2014



### 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product Identity	Isoamyl Benzoate for Synthesis
Alternate Names	Isoamyl Benzoate for Synthesis
1.2. Relevant identified uses of the substance or	mixture and uses advised against
Intended use	Chemical for synthesis
Application Method	See Technical Data Sheet.
1.3. Details of the supplier of the safety data shee	et
Company Name	Thermco Products, Inc.
	10 Millpond Drive,
	Unit #10
	Lafayette, NJ 07848
Emergency	
Customer Service: Thermco Products, Inc.	973.300.9100

# 2. Hazard identification of the product

### 2.1. Classification of the substance or mixture

Combustible Liquid;H227 Combustible Liquid.

### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows. H227 Combustible liquid.

### [Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking. P280 Wear protective gloves / eye protection / face protection.

### [Response]:

No GHS response statements

### [Storage]:

P403+235 Store in a well ventilated place. Keep cool.

### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

12/09/2014



# 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
ISOPENTYL BENZOATE CAS Number: 0000094-46-2	100	Not classified	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance. *The full texts of the phrases are shown in Section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stop artificial respiration. If unconscious place in the recovery position and obtain imme medical attention. Give nothing by mouth.	
Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart an seek medical attention.	
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
4.2. Most important sym	ptoms and effects, both acute and delayed
Overview No specific symptom data available. See section 2 for further details.	

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray. Do not use; water jet.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.



Hazardous decomposition: No hazardous decomposition data available. Keep away from heat / sparks / open flames / hot surfaces - No smoking.

### 5.3. Advice for fire-fighters

#### Special risks:

Combustible. Vapors heavier than air.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

#### Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus.

Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

#### ERG Guide No. ----

### 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.

Take up with liquid-absorbent material (e.g. Chemizorb). Forward for disposal. Clean up affected area.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight.

Incompatible materials: Strong oxidizing agents

Tightly closed. At +15C to +25C.

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SDS Revision Date:

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See section 2 for further details. - [Storage]: 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

Exposure				
CAS No.	Ingredient	Source	Value	
0000094-46-2	ISOPENTYL BENZOATE	OSHA	No Established Limit	
		ACGIH	No Established Limit	
		NIOSH	No Established Limit	
		Supplier	No Established Limit	

### **Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000094-46-2	ISOPENTYL BENZOATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

### 8.2. Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Protective safety glasses required
Skin	Butyl rubber gloves Layer thickness: 0.7 mm Breakthrough time: >240 min
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

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# 9. Physical and chemical properties

Appearance	Colorless Liquid
Odor	Almost Odorless
Odor threshold	Not Measured
рН	NA
Melting point / freezing point	NA
Initial boiling point and boiling range	260 C
Flash Point	89 C
Evaporation rate (Ether = 1)	NA
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: NA
	Upper Explosive Limit: NA
Vapor pressure (Pa)	NA
Vapor Density	NA
Density	0.99 g/cm3 (@20C)
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity (cSt)	NA
VOC %	NA
Log Pow	4.15 (experimental) (Lit.)
9.2. Other information	
No other relevant information.	

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

Forms explosive mixtures with air on intense heating.



SDS Revision Date:

12/09/2014

# 10.5. Incompatible materialsStrong Oxidizing agents.10.6. Hazardous decomposition products

No hazardous decomposition data available.

# 11. Toxicological information

### Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
ISOPENTYL BENZOATE - (94-46-2)	6330.00, Rat -	No data	No data	No data	No data
	Category: NA	available	available	available	available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation		Not Applicable
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable



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12/09/2014

# **12. Ecological information**

### 12.1. Toxicity

Do not allow product to enter water, wastewater or soil! See Section 3 for chemical specific data. Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish,	48 hr EC50 crustacea,	ErC50 algae,
	mg/l	mg/l	mg/l
ISOPENTYL BENZOATE - (94-46-2)	Not Available	Not Available	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

An appreciable bioaccumulation potential is to be expected (log Po/w > 3)

12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

### 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

5 			
	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable DOT Label:	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable

14. Transport information

# Safety Data Sheet Isoamyl Benzoate for Synthesis SDS Revision Date:



14.5. Environmental hazardsIMDGMarine Pollutant: No14.6. Special precautions for userNo further information

# 15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act ( TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	B3
US EPA Tier II Hazards	Fire: Yes
	Sudden Release of Pressure: No
	Reactive: No
	Immediate (Acute): No
	Delayed (Chronic): No
EPCRA 311/312 Chemic (No Product Ingred	
EPCRA 302 Extremely I (No Product Ingred	
EPCRA 313 Toxic Chen (No Product Ingred	
Proposition 65 - Carcine (No Product Ingred	
Proposition 65 - Develo (No Product Ingred	pmental Toxins (>0.0%): lients Listed)
Proposition 65 - Female (No Product Ingred	
Proposition 65 - Male R (No Product Ingred	
N.J. RTK Substances (> (No Product Ingred	
Penn RTK Substances (No Product Ingred	

12/09/2014



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## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is: not applicable

# This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer: This information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Document

#### 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: WB 7223 black / schwarz
- Article number: 2001924
  Registration number
  The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
  Relevant identified uses of the substance or mixture and uses advised against
  Currently no such applications are identified
- · Application of the substance / the preparation dry erase whiteboard ink
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: School Specialty W6316 Design Drive Greenville, WI 54942 Ph#1-888-388-3224 Fax#1-888-388-6344 Email: orders@schoolspecialty.com Website: www.schoolspecialty.com

#### 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  - F; Highly flammable

#### R11: Highly flammable.

R67: Vapours may cause drowsiness and dizziness.

• Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Has a narcotizing effect.

#### · Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

#### · Label elements

- · Labelling according to EU guidelines:
- The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- · Code letter and hazard designation of product:



F Highly flammable

#### • Risk phrases:

- 11 Highly flammable.
- 67 Vapours may cause drowsiness and dizziness.
- Safety phrases:
  - 2 Keep out of the reach of children.
- 7/9 Keep container tightly closed and in a well-ventilated place.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

Mixture of the following substances, containing non-hazardous substances and colouring agents. (Contd. on page 2) -EU-



Safety data sheet

according to 1907/2006/EC, Article 31

Trade name: WB 7223 black / schwarz

· Description: Mixtu	(Cont (Cont (Cont	d. of page 1)	
	· Dangerous components:		
CAS: 64-17-5	ethanol	50-100%	
EINECS: 200-578-6	F R11		
	🗑 Flam. Liq. 2, H225		
CAS: 107-98-2	1-Methoxy-2-propanol	10-25%	
EINECS: 203-539-1	R10-67		
	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336		
<ul> <li>Additional information</li> </ul>	· Additional information: For the wording of the listed risk phrases refer to section 16.		

#### 4 First aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- $\cdot$  Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### 5 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:
- Water
- Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Wear protective clothing.
  Environmental precautions: Do not allow product to reach sewage system or any water course.
- Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents • Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

#### 7 Handling and storage

- Handling:
  Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.
  Not applicable
  Information about fire and explosion protection:
  Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- $\cdot$  Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 3) EU DOKUMENTAL

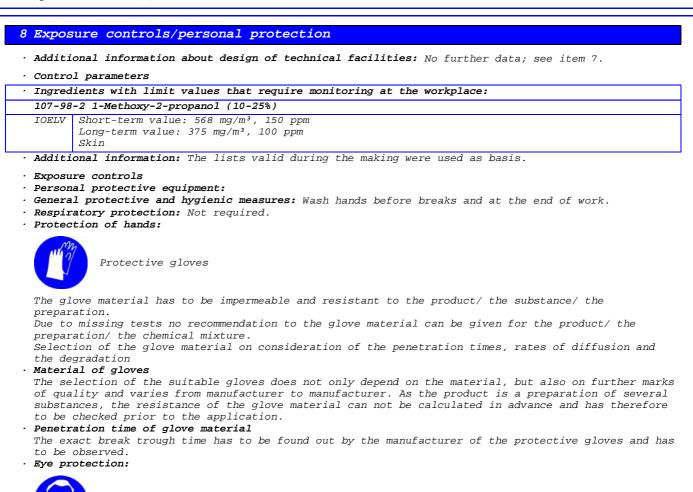
GmbH & Co KG Schreibfarber

according to 1907/2006/EC, Article 31

Trade name: WB 7223 black / schwarz

• Specific end use(s) No further relevant information available.

(Contd. of page 2)



Tightly sealed goggles

9 Physical and chemical properties	
· Information on basic physical and chemica	al properties
<ul> <li>General Information</li> </ul>	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Product specific
· Odour threshold:	Not determined.
· Important information on protection of he	ealth and
environment, and on safety.	-
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78°C
· Flash point:	13°C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	287°C
• Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
	(Contd. on page



GmbH & Co KG Schreibfar

#### Safety data sheet

according to 1907/2006/EC, Article 31

Trade name: WB 7223 black / schwarz

	(Contd. of page
Explosion limits:	
Lower:	1,7 Vol %
Upper:	15,0 Vol %
Vapour pressure at 20°C:	59 hPa
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Partly miscible.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20°C:	9 s (DIN 53211/4)
Solvent content:	
Organic solvents:	77,4 %
Solids content:	5,3 %
Other information	No further relevant information available.

#### 10 Stability and reactivity

- Reactivity
- · Chemical stability
- $\cdot$  Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

#### 12 Ecological information

- Toxicity
- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation
- Must not be disposed together with household garbage. Do not allow product to reach sewage system. • European waste catalogue
- · European waste catalogue

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

(Contd. on page 5) EU



Safety data sheet

according to 1907/2006/EC, Article 31

Trade name: WB 7223 black / schwarz

08 01 00 wastes from M	FSU and removal of paint and varnish	(Contd. of page
	paint or varnish containing organic solvents or other	dangerous substances
ob of 15 Studges from	paine of variation concatining organic solvenes of other	dangerous substances
Uncleaned packaging:		
Recommendation: Disposal	must be made according to official regulations.	
Transport informati		
IIansport Informati	50	
Land transport ADR/RID	(cross-border)	
A		
3		
ADD (DID alogge	2 (E1) Elemmeble liquida	
ADR/RID class: Danger code (Kemler):	3 (F1) Flammable liquids. 33	
UN-Number:	1263	
Packaging group:	II	
Hazard label	3	
UN proper shipping name:		
Limited quantities (LQ)		
Tunnel restriction code		
Maritime transport IMDG:		
harreine eranspore inse		
IMDG Class:	3	
UN Number:	1263	
Label	3	
Packaging group:	II	
EMS Number:	<i>F</i> - <i>E</i> , <u><i>S</i>-<i>E</i></u>	
Marine pollutant:	No	
Proper shipping name:	PAINT	
Air transport ICAO-TI an	d IATA-DGR:	
A		
3		
ICAO/IATA Class:	3	
UN/ID Number:	1263	
Label Packaging group:	3 II	
Proper shipping name:	PAINT	
	user Warning: Flammable liquids.	
Transport in bulk accord	ing to Annex II of MARPOL73/78 and the IBC Code Not a	pplicable.

- $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture
- $\cdot$  National regulations:
- · Technical instructions (air):

Class	Share in %
NK	50-100

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness.

(Contd. on page 6) EU



Safety data sheet

according to 1907/2006/EC, Article 31

Page 6/6 Printing date 05.04.2011 Revision: 05.04.2011 Version number 17

Trade name: WB 7223 black / schwarz

(Contd. of page 5)

- R10 Flammable.
- R11 Highly flammable.
  R67 Vapours may cause drowsiness and dizziness.
  * Data compared to the previous version altered.

EU

### SAFETY DATA SHEET

Section 1: Identification Product identifier used on t	ha lahali
Product identifier used on t Product name:	
Product name:	Air-activated heating packs of various styles HotHands: Hand warmer, Hand warmer camo, Hand warmer game day,
	Hand warmer turbo, Lap warmer, Super warmer, Toe warmer, Insole foo warmer, Clothing Adhesive warmer, Body warmer,
	MediHeat: Direct skin warmer, Slick Back warmer, Clothing Adhesive warmer
	Grabber: Hand warmer, Hand warmer camo, Hand warmer game day,
	Mega warmer, Toe warmer, Insole foot warmer, Clothing Adhesive warmer, Body warmer
Other means of identification	on;
Heating pad wrapped i	n plastic film, Air-activated disposable warmers
Recommended use of the ch	nemical and restrictions on use; Recommended
use: Air-Activ	ated Disposable Warmer
use: Air-Activ Restrictions on use:	
Restrictions on use: Name, address, and telepho party;	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible
Restrictions on use: Name, address, and telepho party; Name:	ated Disposable Warmer No Applicable Information Available <b>ne number of the chemical manufacturer, importer, or other responsible</b> KOBAYASHI Healthcare International Inc.
Restrictions on use: Name, address, and telepho party; Name: Department in Charg	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. e: Consumer Relations Dept.
Restrictions on use: Name, address, and telepho party; Name:	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. e: Consumer Relations Dept. 245 Kraft drive, Dalton, GA 30721, USA
Restrictions on use: Name, address, and telepho party; Name: Department in Charg	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. e: Consumer Relations Dept.
Restrictions on use: Name, address, and telepho party; Name: Department in Charg Address:	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. e: Consumer Relations Dept. 245 Kraft drive, Dalton, GA 30721, USA
Restrictions on use: Name, address, and telepho party; Name: Department in Charg Address: Telephone number:	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. consumer Relations Dept. 245 Kraft drive, Dalton, GA 30721, USA 7062261800
Restrictions on use: Name, address, and telepho party; Name: Department in Charg Address: Telephone number: Fax number: e-mail address:	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. (e: Consumer Relations Dept. 245 Kraft drive, Dalton, GA 30721, USA 7062261800 7065297705
Restrictions on use: Name, address, and telepho party; Name: Department in Charg Address: Telephone number: Fax number:	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. (e: Consumer Relations Dept. 245 Kraft drive, Dalton, GA 30721, USA 7062261800 7065297705
Restrictions on use: Name, address, and telepho party; Name: Department in Charg Address: Telephone number: Fax number: e-mail address:	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. (consumer Relations Dept. 245 Kraft drive, Dalton, GA 30721, USA 7062261800 7065297705 kcp_compliance@kobayashi.com 7062261800
Restrictions on use: Name, address, and telepho party; Name: Department in Charg Address: Telephone number: Fax number: e-mail address: Emergency phone number Section 2: Hazard(s) identif	ated Disposable Warmer No Applicable Information Available ne number of the chemical manufacturer, importer, or other responsible KOBAYASHI Healthcare International Inc. (consumer Relations Dept. 245 Kraft drive, Dalton, GA 30721, USA 7062261800 7065297705 kcp_compliance@kobayashi.com 7062261800

**Health Hazards** 

#### Not classified

#### **Environmental Hazards**

Not classified

Other Hazards No Applicable Information Available

# Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200;

Symbol(s)	No Applicable Information Available
Signal word	No Applicable Information Available
Hazard Statement(s)	No Applicable Information Available
Precautionary Statement(s)	No Applicable Information Available

#### Description of any hazards not otherwise classified;

General caution: powdered materials may ignite, under certain conditions. May generate heat if the contents removed from the bag.

#### Ingredient with unknown acute toxicity in the mixture

No Applicable Information Available

#### Section 3: Composition/information on ingredients

### **Compositions (contents of the product)***

compositions (contents of the prou	ucej	
Chemical name	CAS No.	Concentration/concentration ranges (wt %)
Iron powder	7439-89-6	50-60
Activated charcoal	7440-44-0	5-10
Vermiculite	1318-00-9	5-10
Water-absorbent resin	9003-04-7	1-5
Sodium chloride	7647-14-5	1-5
Water	7732-18-5	30-40

*This product consists of the non-woven fabric and the heating element.

Contents of the heating element are described in this table. Exact

concentrations have been withheld as a trade secret.

#### Section 4: First-aid measures

Necessary first-aid measures by relevant routes of exposure;

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IF INHALED	Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
	If symptoms continue, call a doctor/physician.
IF ON SKIN	Rinse with plenty of water and soap.
	If symptoms continue, call a doctor/physician.
IF IN EYES	Immediately rinse cautiously with water for 15 - 20 minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms continue, call a doctor/physician.
IF SWALLOWED	Rinse mouth. Immediately get medical advice/attention.

#### Most important symptoms/effects, acute and delayed;

No Applicable Information Available

#### Indication of immediate medical attention and special treatment needed, if necessary; No

Applicable Information Available

#### Section 5: Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media; Suitable

#### extinguishing media:

Use dry sand, dry chemical powder, fire foam or carbon dioxide.

#### Unsuitable extinguishing media

Do not use water to extinguish fire.

#### Specific hazards arising from the chemical;

General caution: powdered materials may ignite, under certain conditions.

### Special protective equipment and precautions for fire-fighters; Cut off

any ignition sources and extinguish with an appropriate agent. Take action upwind from the source.

#### Section 6: Accidental release measures

#### Personal precautions, protective equipment, and emergency procedures;

Avoid release into the environment because product may cause local effects.

#### Methods and materials for containment and cleaning up;

Sweep up materials or vacuum using a vacuum cleaner so as not to cause dust, then place material in a container of water.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent flow of material into drains, sewers, basements or closed areas.

#### Section 7: Handling and storage

### Precautions for safe handling Protective

#### measures:

Do not use for other than recommended use. Avoid the generation of dust.

#### Advice on general occupational hygiene:

Wash contaminated clothing before reuse.

# Conditions for safe storage, including any incompatibilities Technical

### measures:

Take precautionary measures against static discharge.

#### **Incompatible materials:**

Oxidizing agents

#### **Conditions for safe storage:**

Avoid storing in direct sunlight, high temperature and high humidity. Store at room temperature.

### **Packing material:**

Use a sealed container without damage or leakage.

#### Section 8: Exposure controls/personal protection

<b>Occupational Exposure Limits;</b>	
OSHA PEL-TWA	5 mg/m ³ (Respirable fraction)
	15 mg/m ³ (Total dust)
ACGIH TLV (2014)	3 mg/m ³ (Insoluble respirable particles not other specified)
	10 mg/m ³ (Insoluble inhalable particles not other specified)

#### Appropriate engineering controls;

In a work place where dusts generate, ensure to use sealed instrument or local ventilation.

### Individual protection measures, such as personal protective equipment;

Respiratory protection	In case of dust generation, wear appropriate protective mask
	or air aspirator as required.
Hand protection	If hand contact is possible, wear protective gloves.
Eye protection	Wear safety glasses or goggles if in eyes.
Skin and body protection	Wear protective clothing and apron if necessary.

#### Section 9: Physical and chemical properties

Appearance	White sheet (contents: black)
(Physical state, color, etc.)	
Odor	odorless
Odor threshold	No Applicable Information Available
pH	unmeasurable
Melting point/freezing point	No Applicable Information Available
Initial boiling point and boiling range	No Applicable Information Available
Flash point	No Applicable Information Available
Evaporation rate	No Applicable Information Available
Flammability (solid, gas)	No Applicable Information Available
Upper/lower flammability or explosive	No Applicable Information Available
limits	
Vapor pressure	No Applicable Information Available
Vapor density	No Applicable Information Available
Relative density	No Applicable Information Available
Solubility (ies)	No Applicable Information Available
Partition coefficient: n-octanol/water	No Applicable Information Available
Auto-ignition temperature	No Applicable Information Available
Decomposition temperature	No Applicable Information Available
Viscosity	No Applicable Information Available

### **Other information**

No Applicable Information Available

#### Section 10: Stability and reactivity

### Reactivity

Stable under normal handling condition.

#### **Chemical stability**

Stable under normal handling condition.

#### Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

#### **Conditions to avoid**

Avoid storing in direct sunlight, high temperature and high humidity.

#### **Incompatible materials**

Oxidizing agents

#### Hazardous decomposition products

In case of fire, toxic decomposition products may be generated.

#### Section 11: Toxicological information

**Information on the likely routes of exposure (inhalation, ingestion, skin, and eye contact);** No Applicable Information Available

**Symptoms related to the physical, chemical and toxicological characteristics;** Information on product:

Acute toxicity (oral):

Rat  $LD_{50} > 2,000 \text{ mg/kg}$ 

Information on ingredients: No Applicable Information Available

### Delayed and immediate effects and also chronic effects from short- and long-term exposure; No

Applicable Information Available

### Numerical measures of toxicity (such as acute toxicity estimates);

No Applicable Information Available

# Whether the chemical is listed in the NTP Report on Carcinogens or has been found to be a potential carcinogen in the IARC Monographs, or by OSHA;

IARC: Not listed NTP Report: Not listed OSHA: Not listed

Section 12: Ecological information

Ecotoxicity:	
Information on product:	No Applicable Information Available
Information on ingredients:	No Applicable Information Available
Persistence and degradability:	
Information on product:	No Applicable Information Available
Information on ingredients:	No Applicable Information Available
Bioaccumulative potential:	
Information on product:	No Applicable Information Available
Information on ingredients:	No Applicable Information Available
Mobility in soil:	
Information on product:	No Applicable Information Available
Information on ingredients:	No Applicable Information Available
Other adverse effects:	
No information	

### Section 13: Disposal considerations

#### Waste treatment methods

Dispose of waste in accordance with applicable local, regional and international regulations and standards. When disposing, consult a certificated waste trader or local offices if they deal with the waste. Used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations.

Contents should be removed completely prior to disposal of empty containers.

### Section 14: Transport information

UN number	No Applicable Information Available
UN proper shipping name	No Applicable Information Available
Transport hazard class(es)	No Applicable Information Available
Packing group	No Applicable Information Available
Environmental hazards	No Applicable Information Available
Transport in bulk according to Annex	II of MARPOL 73/78 and IBC code
	No Applicable Information Available

#### Special precautions for user

When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping or damaging. Take preventive measures of collapse.

#### Section 15: Regulatory information

OSHA:	Not hazardous chemical
TSCA inventory:	All ingredients except vermiculite in this product are listed on the TSCA Inventory.
TSCA SNUR:	Not listed
SARA Title III:	Section 302 (Extremely Hazardous Substances): Not listed
	Section 304 (Hazardous Substances): Not listed
	Section 313 (TRI Chemicals): Not listed
Clean Air Act:	This product does not contain any substances regulated as hazardous air pollutants under Section 112 of the Clean Air Act.
Clean Water Act:	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act.

#### Section 16: Other information, including date of preparation or last revision

Update history:	
Date of issue:	April 10, 2015
Date of revision:	December 08, 2021

#### **References:**

Information of KOBAYASHI Pharmaceutical Co., Ltd. ACGIH, American Conference of Governmental Industrial Hygienists (2014) TLVs and BEIs.

#### [Disclaimer]

This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.