

Page 1 of 4 Alkaline Batteries March 2015

1530365

### **PRODUCT SAFETY DATA SHEET**

PRODUCT NAME: Eveready / Energizer Battery	Type No.:	Volts:
<b>TRADE NAMES:</b> <u>ENERGIZER, ENERGIZER e², INDUSTRIAL ZMA, HERCULES,</u> EVEREADY, WONDER	Approximate Weight	:

CHEMICAL SYSTEM: Alkaline Manganese Dioxide-Zinc

Energizer has prepared copyrighted Product Safety Datasheets to provide information on the different Eveready/Energizer battery systems. Batteries are articles as defined under the GHS and exempt from GHS classification criteria (Section 1.3.2.1.1 of the GHS). The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, ENERGIZER BATTERY MANUFACTURING, INC. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.

Designed for Recharge: No

### SECTION 1 - MANUFACTURER INFORMATION

Energizer Battery Manufacturing, Inc. 25225 Detroit Rd. Westlake, OH 44145 Telephone Number for Information: 800-383-7323 (USA / CANADA)

Date Prepared: March 2015

### SECTION 2 – HAZARDS IDENTIFICATION

### GHS classification: N/A

Signal Word: N/A

### Hazard Classification: N/A

Under normal conditions of use, the battery is hermetically sealed.

**Ingestion:** Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

**Inhalation:** Contents of an open battery can cause respiratory irritation.

Skin Contact: Contents of an open battery can cause skin irritation and/or chemical burns.

**Eye Contact:** Contents of an open battery can cause severe irritation and chemical burns.

### **SECTION 3 - INGREDIENTS**

**IMPORTANT NOTE:** The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

MATERIAL OR INGREDIENT	PEL (OSHA)	TLV (ACGIH)	%/wt.
Graphite (CAS# 7782-42-5)	15 mg/m <sup>3</sup> TWA (total dust) 5 mg/m <sup>3</sup> TWA (respirable fraction)	2 mg/m <sup>3</sup> TWA (respirable fraction)	2-6
Manganese Dioxide (CAS# 1313-13-9)	5 mg/m <sup>3</sup> Ceiling (as Mn)	0.2 mg/m <sup>3</sup> TWA (as Mn)	30-45
Potassium Hydroxide (CAS# 1310-58-3)	None established	2 mg/m <sup>3</sup> Ceiling	4-8
Zinc (CAS# 7440-66-6)	15 mg/m <sup>3</sup> TWA PNOR* (total dust) 5 mg/m <sup>3</sup> TWA PNOR* (respirable fraction)	10 mg/m <sup>3</sup> TWA PNOC** (inhalable particulate) 3 mg/m <sup>3</sup> TWA PNOC** (respirable particulate)	12-25



Page 2 of 4 Alkaline Batteries March 2015

Non-Hazardous Components Steel	None established	None established	18-22
(iron CAS# 65997-19-5			
Water, Paper, Plastic and Other	None established	None established	Balance

\* PNOR: Particulates not otherwise regulated

\*\*PNOC: Particulates not otherwise classified

### SECTION 4 – FIRST AID MEASURES

**Ingestion:** Do not induce vomiting or give food or drink. Seek medical attention immediately. CALL NATIONAL BATTERY INGESTION HOTLINE for advice and follow-up (202-625-3333) collect day or night.

**Inhalation:** Provide fresh air and seek medical attention.

**Skin Contact:** Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

**Eye Contact:** Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

### **SECTION 5 - FIRE FIGHTING MEASURES**

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

To cleanup leaking batteries:

Ventilation Requirements: Room ventilation may be required in areas where there are open or leaking batteries.

**Eye Protection:** Wear safety glasses with side shields if handling an open or leaking battery. **Gloves:** Use neoprene or natural rubber gloves if handling an open or leaking battery. Battery materials should be collected in a leak-proof container.

### SECTION 7 - HANDLING AND STORAGE

Storage: Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

**Mechanical Containment:** If potting or sealing the battery in an airtight or watertight container is required, consult your Energizer Battery Manufacturing, Inc. representative for precautionary suggestions. Batteries normally evolve hydrogen which, when combined with oxygen from the air, can produce a combustible or explosive mixture unless vented. If such a mixture is present, short circuits, high temperature, or static sparks can cause an ignition.

Do not obstruct safety release vents on batteries. Encapsulation (potting) of batteries will not allow cell venting and can cause high pressure rupture.

**Handling:** Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

If soldering or welding to the battery is required, consult your Energizer Battery Manufacturing, Inc. representative for proper precautions to prevent seal damage or short circuit.

**Charging:** This battery is manufactured in a charged state. It is not designed for recharging. Recharging can cause battery leakage or, in some cases, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards.

**Labeling:** If the Eveready / Energizer Battery label or package warnings are not visible, it is important to provide a package and/or device label stating:

**WARNING:** do not install backwards, charge, put in fire, or mix with other battery types. May explode or leak causing injury. **Replace all batteries at the same time.** 

Where accidental ingestion of small batteries is possible, the label should include: Keep away from small children. If swallowed, promptly see doctor; have doctor phone (202) 625-3333 collect.



Page 3 of 4 Alkaline Batteries March 2015

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Requirements: Not necessary under normal conditions.

**Respiratory Protection:** Not necessary under normal conditions.

**Eye Protection:** Not necessary under normal conditions.

**Gloves:** Not necessary under normal conditions.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Solid object
Upper Explosive Limits:	Not applicable for an Article
Lower Explosive Limits	Not applicable for an Article
Odor	No odor
Vapor Pressure (mm Hg @ 25°C)	Not applicable for an Article
Odor Threshold	No odor
Vapor Density (Air = 1)	Not applicable for an Article
рН	Not applicable for an Article
Density (g/cm <sup>3</sup> )	2.0 - 3.0
Melting point/Freezing Point	Not applicable for an Article
Solubility in Water (% by weight)	Not applicable for an Article
Boiling Point @ 760 mm Hg (°C)	Not applicable for an Article
Flash Point	Not applicable for an Article
Evaporation Rate (Butyl Acetate = 1)	Not applicable for an Article
Flammability	Not applicable for an Article
Partition Coefficient	Not applicable for an Article
Auto-ignition Temperature	Not applicable for an Article
Decomposition Temperature	Not applicable for an Article
Viscosity	Not applicable for an Article

### SECTION 10 - STABILITY AND REACTIVITY

Alkaline batteries do not meet any of the criteria established in 40 CFR 261.2 for reactivity.



Page 4 of 4 Alkaline Batteries March 2015

### SECTION 11 – TOXICOLOGICAL INFORMATION

Under normal conditions of use, alkaline batteries are non-toxic.

### SECTION 12 – ECOLOGICAL INFORMATION

Issues such as ecotoxicity, persistence and bioaccumulation are not applicable for articles.

### SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling.

### SECTION 14 – TRANSPORT INFORMATION

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for Energizer alkaline batteries has been designed to be compliant with these regulatory concerns.

Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

ADRNot regulatedIMDGNot regulatedUNNot regulatedUS DOT49 CFR 172.102 Provision 130IATAA123ICAONot regulated	Regulatory Body	Special Provisions
IMDGNot regulatedUNNot regulatedUS DOT49 CFR 172.102 Provision 130IATAA123ICAONot regulated	ADR	Not regulated
UNNot regulatedUS DOT49 CFR 172.102 Provision 130IATAA123ICAONot regulated	IMDG	Not regulated
US DOT         49 CFR 172.102 Provision 130           IATA         A123           ICAO         Not regulated	UN	Not regulated
IATA A123 ICAO Not regulated	US DOT	49 CFR 172.102 Provision 130
ICAO Not regulated	IATA	A123
	ICAO	Not regulated

All Energizer alkaline batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

### **SECTION 15 - REGULATORY INFORMATION**

Batteries marketed by Energizer Battery Manufacturing, Inc. are not classified as dangerous goods by the US Department of Transportation or the major international regulatory bodies and are therefore not regulated.

SARA/TITLE III - As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right-To-Know Act.

#### **SECTION 16 - OTHER INFORMATION**

None.



Volts:

Page 1 of 4 Carbon Zinc Batteries March 2015

### **PRODUCT SAFETY DATA SHEET**

Type No.:

**Approximate Weight:** 

Designed for Recharge: No

PRODUCT NAME: Eveready Battery

TRADE NAMES: CLASSIC; SUPER HEAVY DUTY; INDUSTRIAL; HERCULES

CHEMICAL SYSTEM: Carbon Zinc

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Signal Word: N/A

### Hazard Classification: N/A

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**Inhalation:** Contents of an open battery can cause respiratory irritation.

Skin Contact: Contents of an open battery can cause skin irritation and/or chemical burns.

Eye Contact: Contents of an open battery can cause severe irritation and chemical burns.

### SECTION 3 - INGREDIENTS

**IMPORTANT NOTE:** The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

MATERIAL OR INGREDIENT	PEL (OSHA)	TLV (ACGIH)	%/wt.
Acetylene Black (CAS# 1333-86-4)	3.5 mg/m <sup>3</sup> TWA (as carbon black)	3.5 mg/m <sup>3</sup> TWA (as carbon black)	3-7
Ammonium Chloride (CAS# 12125-02-9)	None established	10 mg/m <sup>3</sup> TWA (fume) 20 mg/m <sup>3</sup> STEL (fume)	0-10
Manganese Dioxide (CAS# 1313-13-9)	5 mg/m <sup>3</sup> CEILING (as Mn)	0.2 mg/m <sup>3</sup> TWA (as Mn)	15-31
Zinc (CAS# 7440-66-6)	15 mg/m <sup>3</sup> TWA PNOR* (total dust) 5 mg/m <sup>3</sup> TWA PNOR* (respirable fraction)	10 mg/m <sup>3</sup> TWA PNOC** (inhalable particulate) 3 mg/m <sup>3</sup> TWA PNOC** (respirable particulate)	7-42



#### Page 2 of 4 Carbon Zinc Batteries March 2015

Zinc Chloride (CAS# 7646-85-7)	1 mg/m <sup>3</sup> TWA (fume)	1 mg/m <sup>3</sup> TWA (fume) 2 mg/m <sup>3</sup> STEL (fume)	2-10
Non-Hazardous Components Steel (Iron CAS #65997-19-5)	None established	None established	23-28
Water, Paper, Plastic and Other	Non established	Non established	Balance

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\*\*PNOC: Particulates not otherwise classified

### SECTION 4 – FIRST AID MEASURES

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Inhalation: Provide fresh air and seek medical attention.

**Skin Contact:** Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

**Eye Contact:** Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

### **SECTION 5 - FIRE FIGHTING MEASURES**

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

To cleanup leaking batteries:

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**Gloves:** Use neoprene or natural rubber gloves if handling an open or leaking battery. Battery materials should be collected in a leak-proof container.

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Do not obstruct safety release vents on batteries. Encapsulation (potting) of batteries will not allow cell venting and can cause high pressure rupture.

**Handling:** Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

If soldering or welding to the battery is required, consult your Energizer Battery Manufacturing, Inc. representative for proper precautions to prevent seal damage or short circuit.

**Charging:** This battery is manufactured in a charged state. It is not designed for recharging. Recharging can cause battery leakage or, in some cases, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards.

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Page 3 of 4 Carbon Zinc Batteries March 2015

**WARNING:** do not install backwards, charge, put in fire, or mix with other battery types. May explode or leak causing injury. **Replace all batteries at the same time.** 

Where accidental ingestion of small batteries is possible, the label should include:

Keep away from small children. If swallowed, promptly see doctor; have doctor phone (202) 625-3333 collect.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Requirements: Not necessary under normal conditions.

Respiratory Protection: Not necessary under normal conditions.

**Eye Protection:** Not necessary under normal conditions. **Gloves:** Not necessary under normal conditions.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Solid object
Upper Explosive Limits:	Not applicable for an Article
Lower Explosive Limits	Not applicable for an Article
Odor	No odor
Vapor Pressure (mm Hg @ 25°C)	Not applicable for an Article
Odor Threshold	No odor
Vapor Density (Air = 1)	Not applicable for an Article
рН	Not applicable for an Article
Density (g/cm <sup>3</sup> )	2.0 - 3.0
Melting point/Freezing Point	Not applicable for an Article
Solubility in Water (% by weight)	Not applicable for an Article
Boiling Point @ 760 mm Hg (°C)	Not applicable for an Article
Flash Point	Not applicable for an Article
Evaporation Rate (Butyl Acetate = 1)	Not applicable for an Article
Flammability	Not applicable for an Article
Partition Coefficient	Not applicable for an Article
Auto-ignition Temperature	Not applicable for an Article
Decomposition Temperature	Not applicable for an Article
Viscosity	Not applicable for an Article



Page 4 of 4 Carbon Zinc Batteries March 2015

### SECTION 10 - STABILITY AND REACTIVITY

Carbon zinc batteries do not meet any of the criteria established in 40 CFR 261.2 for reactivity.

### SECTION 11 – TOXICOLOGICAL INFORMATION

Under normal conditions of use, carbon zinc batteries are non-toxic.

### SECTION 12 – ECOLOGICAL INFORMATION

Issues such as ecotoxicity, persistence and bioaccumulation are not applicable for articles.

### SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling.

### SECTION 14 – TRANSPORT INFORMATION

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for Energizer alkaline batteries has been designed to be compliant with these regulatory concerns.

Carbon zinc batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

Regulatory Body	Special Provisions
ADR	Not regulated
IMDG	Not regulated
UN	Not regulated
US DOT	49 CFR 172.102 Provision 130
IATA	A123
ICAO	Not regulated

All Energizer or Eveready carbon zinc batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

### SECTION 15 - REGULATORY INFORMATION

Batteries marketed by Energizer Battery Manufacturing, Inc. are not classified as dangerous goods by the US Department of Transportation or the major international regulatory bodies and are therefore not regulated.

SARA/TITLE III - As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right-To-Know Act.

### **SECTION 16 - OTHER INFORMATION**

None.

# Safety Data Sheet



A K+S Group Company

# Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier	
Product Name	Common Salt without Additives
Synonyms	<ul> <li>All Purpose Natural Sea Salt; All Purpose Purex Salt; Bunny Spool (Plain Salt); California Pure Coarse Sea Salt; California Pure Fine Sea Salt; California Pure Medium Sea Salt; Canning &amp; Pickling Salt; Commercial Grade, Water Softening Pellets; Culinox 999 Chemical Grade Salt; Culinox 999 Fine Salt; Culinox 999 Food Grade Salt; Evaporated Granulated Salt; Evaporated Salt Pellets; Feed Mixing Salt, Northern Rock, F &amp; R; Fine Mixing Salt; H.G. Blending Salt; Hay &amp; Stock Salt, F&amp;R Industrial Crude Solar Salt; KD Crude Solar Salt; Kleer Fine Salt; Kleer Granulated Salt; Mill Run Salt; Natural Coarse Sea Salt; Northern Fine +20 Rock Salt; Plain Salt Block; Plain Salt Brick; Pool Salt; Professional's Choice Pool Salt; Purex Salt; Purex Select Salt; Reagent Grade Sodium Chloride; Refined Sea Salt; Rock Pretzel Salt; Rock Salt for Making Ice Cream; Safe-T-Salt (bagged w/o YPS); Sea Salt Grinder; Sea Salt Grinder Reill; Select Extra Coarse Rock Salt; Service Pack Salt (all); Ship n' Shore Rock Salt; Solar Salt; Water Softening Crystals; Stock Salt; USP Sodium Chloride; Valu-Soft Solar Salt; Water Softening Salt (Undried) Coarse; Water Softening Salt (Undried) Extra Coarse; White Crystal Brine Block (50 lb); White Crystal Rock Salt (all); White Crystal Solar Salt (all); White Crystal Water Softening Solar Salt (all); White Pretzel Salt; Dried Coarse Salt</li> </ul>
CAS Number	• 7647-14-5
Product Code	MSDS Code: 100
1.2 Relevant identified us	ses of the substance or mixture and uses advised against
Relevant identified use(s)	<ul> <li>Food, Chemical and Drug Processing; Pharmaceuticals; Water Conditioning; Ice Control; Chemical Feedstock – see product data sheets for more information</li> </ul>
1.3 Details of the supplier	r of the safety data sheet
Manufacturer	<ul> <li>Morton Salt, Inc.</li> </ul>
	123 N. Wacker Drive Chicago, IL 60606 United States
Telephone (General)	<ul><li>saltinfo@mortonsalt.com</li><li>312-807-2000</li></ul>
1.4 Emergency telephone	e number
Manufacturer	• 312-807-2000

# **Section 2: Hazards Identification**

## EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

# 2.1 Classification of the substance or mixture

United States (US)	
DSD/DPD	• This product is not considered dangerous under the European Directive 67/548/EEC
CLP	<ul> <li>According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.</li> </ul>
2.3 Other Hazards	
Risk phrase	s No label element(s) specifically required
DSD/DPD	
Hazard statement	<ul> <li>No label element(s) specifically required</li> </ul>
CLP	
2.2 Label Elements	
DSD/DPD	<ul> <li>Classification criteria not met</li> </ul>
CLP	<ul> <li>Classification criteria not met</li> </ul>

According to OSHA 29 CI	FR 1910.1200 HCS
2.1 Classification of	the substance or mixture
OSHA HCS 2012	Classification criteria not met
2.2 Label elements OSHA HCS 2012 Hazard staten	nents  No label element(s) specifically required
2.3 Other hazards	
OSHA HCS 2012	<ul> <li>This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.</li> </ul>
Canada	

According to WHMIS

# 2.1 Classification of the substance or mixture

WHMIS	<ul> <li>Classification criteria not met</li> </ul>
2.2 Label elements	
WHMIS	<ul> <li>No label element(s) specifical</li> </ul>

- 2.3 Other hazards **WHMIS**
- ment(s) specifically required
- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). •

# 2.4 Other information



See Section 12 for Ecological Information.

# Section 3 - Composition/Information on Ingredients

# 3.1 Substances

Non-Hazardous Components					
Chemical Name Identifiers %(weight) LD50/LC50 Classifications According to Regulation/Directive				Comments	
Sodium chloride	<b>CAS</b> :7647-14-5 <b>EC</b> <b>Number</b> :231- 598-3	> 99%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	EU DSD/DPD: Not Classified - Criteria not met EU CLP: Not Classified - Criteria not met OSHA HCS 2012: Not Classified - Criteria not met	May contain small quantities of naturally occurring calcium and magnesium salts

# 3.2 Mixtures

• Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures						
4.1 Description of first aid measures						
Inhalation	<ul> <li>Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.</li> </ul>					
Skin	<ul> <li>IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.</li> </ul>					
Еуе	<ul> <li>In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.</li> </ul>					
Ingestion	<ul> <li>If large quantities are swallowed, call a physician immediately.</li> </ul>					
4.2 Most important	symptoms and effects, both acute and delayed					
	<ul> <li>Refer to Section 11 - Toxicological Information.</li> </ul>					
4.3 Indication of an	y immediate medical attention and special treatment needed					
Notes to Physician	<ul> <li>All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.</li> </ul>					

# **Section 5 - Firefighting Measures**

# 5.1 Extinguishing media

Suitable Extinguishing Media	<ul> <li>Material is non-combustible. In case of fire use media as appropriate for surrounding fire.</li> </ul>
Unsuitable Extinguishing Media	• No data available.
5.2 Special hazards arisin	g from the substance or mixture
Unusual Fire and Explosion Hazards	<ul> <li>No unusual fire or explosion hazards known.</li> </ul>
Hazardous Combustion Products	No data available

# **5.3 Advice for firefighters**

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• Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental	
6.1 Personal precaution	s, protective equipment and emergency procedures
Personal Precautions	<ul> <li>Wear suitable protective clothing, gloves, and eye/face protection.</li> </ul>
Emergency Procedures	<ul> <li>Stop leak if you can do it without risk. Keep unauthorized personnel away. Use norma clean up procedures.</li> </ul>
6.2 Environmental prec	autions
	<ul> <li>None expected to be necessary if material is used under ordinary conditions and as recommended.</li> </ul>
6.3 Methods and materi	al for containment and cleaning up
Containment/Clean-up Measures	Carefully shovel or sweep up spilled material and place in suitable container.
6.4 Reference to other s	sections
	<ul> <li>Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.</li> </ul>
Section 7 - Handling ar	nd Storage
7.1 Precautions for safe	a handling
Handling	<ul> <li>Use good safety and industrial hygiene practices. Wash thoroughly after handling. Keep out of reach of children.</li> </ul>
7.2 Conditions for safe	storage, including any incompatibilities
Storage	<ul> <li>Avoid storage with strong acids and strong oxidizing agents.</li> </ul>
Incompatible Materials or Ignition Sources	<ul> <li>Strong oxidizing agents, strong acids.</li> </ul>
7.3 Specific end use(s)	
	<ul> <li>Refer to Section 1.2 - Relevant identified uses.</li> </ul>
Section 8 - Exposure C	Controls/Personal Protection

## 8.1 Control parameters

Exposure Limits/Guidelines

• No applicable exposure limits available for product or components.

## 8.2 Exposure controls

• Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

## Personal Protective Equipment Pictograms



### Respiratory Eye/Face

Engineering

Measures/Controls

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Wear safety glasses.

## Skin/Body

- General Industrial Hygiene Considerations Environmental Exposure Controls
- Wear appropriate gloves.
- Do not get in eyes or on skin or clothing. Handle in accordance with good industrial hygiene and safety practice.
- Follow best practice for site management and disposal of waste.

# **Section 9 - Physical and Chemical Properties**

# 9.1 Information on Physical and Chemical Properties

Material Description				
Physical Form	Solid	Appearance/Description	Colorless to white crystalline or compressed block/pellet.	
Color	Colorless to White.	Odor	Odorless	
Particulate Type Dust Crystalline		Particulate Size	Variable	
Odor Threshold	Data lacking			
General Properties				
Boiling Point	1413 to 1461 C(2575.4 to 2661.8 F)	Melting Point	801 C(1473.8 F)	
Decomposition Temperature Data lacking		рН	7 Approximately	
Specific Gravity/Relative Density 2.165 Water=1		Bulk Density	Variable	
Water Solubility	er Solubility Soluble 0.36 g/cc @ 20 C(68 F)		Not relevant	
Explosive Properties Not relevant.		Oxidizing Properties:	Not relevant.	
Volatility				
Vapor Pressure	Not relevant	Vapor Density	Not relevant	
Evaporation Rate	Not relevant			
Flammability				
Flash Point	Not relevant	UEL	Not relevant	
LEL	Not relevant	Autoignition	Not relevant	
Flammability (solid, gas)	Not flammable.			
Environmental				
Octanol/Water Partition coefficient	Not relevant			

# 9.2 Other Information

• No additional physical and chemical parameters noted.

# Section 10: Stability and Reactivity

## 10.1 Reactivity

• No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable

# 10.3 Possibility of hazardous reactions

• Hazardous polymerization will not occur.

## 10.4 Conditions to avoid

• Incompatible materials.

# 10.5 Incompatible materials

• Strong oxidizing agents, strong acids.

# **10.6 Hazardous decomposition products**

• Will react with strong acids to generate hydrogen chloride and with strong oxidizing agents to generate chlorine gas.

# Section 11 - Toxicological Information

# 11.1 Information on toxicological effects

Component Name	CAS	Data	
Sodium chloride (> 99%)	7647-14-5	Acute Toxicity: orl-rat LD50:3000 mg/kg	
GHS Properties	Cla	assification	
Acute toxicity	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
Aspiration Hazard	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
Carcinogenicity	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
Germ Cell Mutagenicity	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
Skin corrosion/Irritation	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
Skin sensitization	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
STOT-RE	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
STOT-SE		EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met	
Toxicity for Reproduction	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
Respiratory sensitization	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	
Serious eye damage/Irritation	EL	J/CLP • Classification criteria not met SHA HCS 2012 • Classification criteria not met	

# **Potential Health Effects**

Inhalation	
Acute (Immediate)	<ul> <li>Under normal conditions of use, no health effects are expected. Inhalation of dust may cause mild irritation to mucous membranes, nose and throat. Symptoms may include coughing, dryness and sore throat.</li> </ul>
Chronic (Delayed)	<ul> <li>No data available.</li> </ul>
Skin	
Acute (Immediate)	<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
Chronic (Delayed)	<ul> <li>No data available.</li> </ul>

## Eye

Acute (Immediate)

- Chronic (Delayed)
- Ingestion Acute (Immediate)
  - **Chronic (Delayed)**

Key to abbreviations LD = Lethal Dose

- Based upon practical use and experience using this product eye irritation is not expected to occur.
- No data available.
- Ingestion may cause the following symptoms diarrhea.
- No data available.

# Section 12 - Ecological Information

## 12.1 Toxicity

Material data lacking.

## 12.2 Persistence and degradability

Material data lacking.

## 12.3 Bioaccumulative potential

- Material data lacking.
- 12.4 Mobility in Soil
- Material data lacking.
- 12.5 Results of PBT and vPvB assessment
  - No PBT and vPvB assessment has been conducted.

# 12.6 Other adverse effects

No studies have been found.

# Section 13 - Disposal Considerations

## 13.1 Waste treatment methods

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	
DOT	NDA	Not regulated	NDA	NDA	NDA	
TDG	NDA	Not regulated	NDA	NDA	NDA	
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA	

IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA
14.6 Spec user	ial precaution	s for 🖕 None known.			
14.7 Trans according MARPOL Code	sport in bulk g to Annex II o 73/78 and the	<ul> <li>Not relevant.</li> <li>f</li> <li>IBC</li> </ul>			

# **Section 15 - Regulatory Information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### SARA Hazard Classifications . None

State Right To Know					
Component CAS MA NJ PA					
Sodium chloride	7647-14-5	No	No	No	

Inventory								
Component	CAS	Canada D	SL Canada ND	)SL	China	EU EIN	ECS	EU ELNICS
Sodium chloride	7647-14-5	Yes	No		Yes	Yes		No
Inventory (Con't.)								
Component		CAS	Japan ENCS		Korea KECL		Т	SCA
Sodium chloride	764	47-14-5	Yes		Yes			Yes

## Canada

Labor Canada - WHMIS - Classifications of Substances

• Sodium chloride 7647-14-5 > 99% Uncontrolled product according to WHMIS classification criteria

Canada - WHMIS - Ingredient Disclosure List

• Sodium chloride 7647-14-5 > 99% Not Listed

### -Environment

Canada - CEPA - Priority Substances List

• Sodium chloride 7647-14-5 > 99% Not Listed

# Europe

Other EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

```
Sodium chloride 7647-14-5 > 99% Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits
Sodium chloride 7647-14-5 > 99% Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling
Sodium chloride 7647-14-5 > 99% Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations
Sodium chloride 7647-14-5 > 99% Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases
Sodium chloride 7647-14-5 > 99% Not Listed
```

# Mexico

Other Mexico - Hazard Classifications

• Sodium chloride 7647-14-5 > 99% Not Listed

**Mexico - Regulated Substances** 

Sodium chloride 7647-14-5 > 99% Not Listed

# **United States**

```
    Labor
U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
    Sodium chloride 7647-14-5 > 99% Not Listed
    U.S. - OSHA - Specifically Regulated Chemicals
    Sodium chloride 7647-14-5 > 99% Not Listed
```

```
Environment
   U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

    Sodium chloride 7647-14-5 > 99% Not Listed

   U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

    Sodium chloride 7647-14-5 > 99% Not Listed

   U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
    • Sodium chloride 7647-14-5 > 99% Not Listed
   U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
   • Sodium chloride 7647-14-5 > 99% Not Listed
   U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
   • Sodium chloride 7647-14-5 > 99% Not Listed
   U.S. - CERCLA/SARA - Section 313 - Emission Reporting
   • Sodium chloride 7647-14-5 > 99% Not Listed
   U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

    Sodium chloride 7647-14-5 > 99% Not Listed

United States - California
 Environment
    U.S. - California - Proposition 65 - Carcinogens List

    Sodium chloride 7647-14-5 > 99% Not Listed

   U.S. - California - Proposition 65 - Developmental Toxicity
```

Sodium chloride 7647-14-5 > 99% Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

```
Sodium chloride 7647-14-5 > 99% Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
Sodium chloride 7647-14-5 > 99% Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female
Sodium chloride 7647-14-5 > 99% Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male
Sodium chloride 7647-14-5 > 99% Not Listed
```

## **United States - Pennsylvania**

```
Labor
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
```

• Sodium chloride 7647-14-5 > 99% Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Sodium chloride 7647-14-5 > 99% Not Listed

## **United States - Rhode Island**

Labor U.S. - Rhode Island - Hazardous Substance List

• Sodium chloride 7647-14-5 > 99% Not Listed

## **15.2 Chemical Safety Assessment**

• No Chemical Safety Assessment has been carried out.

Section 16 - Other Information			
Last Revision Date	<ul> <li>18/February 2014</li> </ul>		
Preparation Date	• 09/August/2012		

# Disclaimer/Statement of Liability

• The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations. Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

# Key to abbreviations

NDA = No data available

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 s	sheet
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 stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and 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, CO<sub>2</sub>, 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.

12/09/2014



SDS Revision Date:

12/09/2014

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]:

SDS Revision Date:

12/09/2014



# 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



SDS Revision Date:

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.

	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 SubstanceAll components of this material are either listed or exempt from listing on the control Act (TSCA)WHMIS ClassificationB3									
US EPA Tier II Hazards	Fire: Yes								
Sudden Release of Pressure: No									
	Reactive: No								
Immediate (Acute): No									
Delayed (Chronic): No									
EPCRA 311/312 Chemic	als and RQs:								
(No Product Ingredi	ients Listed)								
EPCRA 302 Extremely H	lazardous :								
(No Product Ingredi	ients Listed)								
EPCRA 313 Toxic Chem	<b>icals:</b>								
(No Product Ingredi	ients Listed)								
Proposition 65 - Carcino	o <b>gens (&gt;0.0%):</b>								
(No Product Ingredi	ients Listed)								
Proposition 65 - Develop	pmental Toxins (>0.0%):								
(No Product Ingredi	ients Listed)								
Proposition 65 - Female	Repro Toxins (>0.0%):								
(No Product Ingredi	ients Listed)								
Proposition 65 - Male Re	epro Toxins (>0.0%):								
(No Product Ingredi	ients Listed)								
N.J. RTK Substances (>	<b>1%) :</b>								
(No Product Ingredi	ients Listed)								
Penn RTK Substances (	>1%) :								
(No Product Ingredi	ients Listed)								

12/09/2014



SDS Revision Date:

12/09/2014

# 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.

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Office Products Group

**Brands That Matter** 

MATERIAL SAFETY DATA SHEET

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Newell Rubben 2707 Butterfield Oak Brook	naid, Inc. (Sanford L.P.) I Road 60523 LISA	EMERGENCY MEDICAL NUMBER:					
800-323-0749 c	x 630-481-2000	888-786-0972					
Product Name:	roduct Name: Sharpie Fine Point Marker, Sharpie Ultra Fine Point Marker, Sharpie Extra Fine Marker, Sharpie Chisel Tip Marker, Sharpie Twin Tip Marker, Super Sharpie Marker, Super Sharpie Twin Tip Marker, Sharpie Mini Fine Point Marker, Sharpie Micro Marker, Sharpie Grip Marker, Sharpie Retractable Fine Point Marker, Sharpie Magnum Marker, Sharpie King Size Marker, Sharpie Liquid Tip Marker.						
Colors:	All Colors	$\mathcal{L}_{i} = \{ i \in [i], j \in [i$					
NewellRubbern be labeled in ac Products bearin evaluation by a toxic or injurious	aid, Inc (Sanford L.P.) is a member of The Art and cordance with the voluntary chronic hazard labelin g the AP Approved Product Seal of The Art and C medical expert, subject to review by the Institute 1 s to humans, or to cause acute toxicity or chronic 1	J Creative Materials Institute, Inc. This product is certified by the Institute to ng standard ASTM D-4236 and is labeled with the AP Non Toxic Seal. Creative Materials Institute, Inc. are certified in a program of toxicological Toxicology Advisory Board, to contain no materials in sufficient quantities to be health problems.					
Section Two:	Hazard Identification						
Not Hazardous u	nder normal use conditions. Not for use on skin. D	o not ingest. Contact with eyes may cause irritation.					
Section Three	Composition						
Dyes	Composition						
Pigments Solvent Mixture:	Sulanol (71-36-3), Propanol (71-23-8), Diacetone	Alcohol (123-42-2), Ethanol (64-17-5)					
Section Four:	First Aid Measures						
Inhalation:	Remove source of irritation. If symptoms pers	sist seek medical attention					
Skin Contact:	Wash with soap and water. If irritation persist	ts seek medical attention.					
Eye Contact:	Rinse eyes with water, if irritation persists see	sk medical attention.					
Ingestion:	If symptoms occur seek medical attention.						
Section Five	Fire Fighting Mansuras						
Flach Print	NIA						
Extinguishing Media:	As appropriate for surrounding	) area.					
Special Fire Fighting	Measures: N/A						
Hazardous combustic	m products: N/A						
Section Six:	Accidental Release Measures	· · · · · · · · · · · · · · · · · · ·					
In Case of Spill or Ac	cidental Release: Wipe up with absorbent mat	leríal.					
Section Seven:	Handling and Storage						
Handling:	Do not shake marker.						
Storage:	Keep cap on marker when not in use.						
Section Eight:	Exposure Controls and	Personal Protection					
Eve Protec	tion: None under normal use conditions						
Clothing:	None under normal use conditions.						
Respirator	None under normal use conditions.						
lay 04, 2010		Page 1 of 2					

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Brands That Matter

MATERIAL SAFETY DATA SHEET

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MSDS # 3000

Section Nine:	Physical and Chemical Properties
Boiling Point:	N/A
Specific Gravity:	N/A
Vapor Pressure:	N/A
Solubility in Water:	N/A
Evaporation Rate:	N/A
Appearance/Odor:	Marker/Alcohol (ink)
Section Ten:	Stability and Reactivity
Stability:	N/A
Conditions to Avoid:	Avoid exposure to heat, flame or other sources of ignition.
Chemical Incompatibili	tyr y N/A a star a s
Hazardous Polymerizal	lion: N/A.
Section Eleven:	Toxicological Information
See Section Two: Haz	ard Identification for any hazards
Section Twelve:	Ecological Information
Not available	
Section Thirteen:	Disposal Considerations
Dispose of in accordan	nce with all Federal, State, and Local Regulations.
Section Fourteen:	Transport Information
DOT:	Not available
IATA:	Notavallable
IMO:	Not available
Section Fifteen:	Regulatory Information
United States:	All components in this product are listed on or exempt from reporting under the Federal Toxic Substances Control Act (TSCA).
Section Sixteen:	Other Information
HMIS Code	
Health	NewellRubbermaid, Inc has been advised by Counsel that the OSHA Hazard Communication N/A Standard and the Health Canada Workplace Hazardous Materials Information Standard do not
Flammability	N/A apply to the Sanford Product described in this Material Safety Data Sheet. The reasons for the
Reactivity	exemptions are contained in 29 CFR 1910.1200(b)(6)(ix) as amended Sept 14, 2009 per the Code N/A of Federal Regulations and also Canadian Hazardous Products Act part 12 section (f) as
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Newell Rubbermaid

Brands That Matter

# Hazard Communication Compliance Declaration

Newell-Rubbermaid (NWL) writing instruments comply with U.S. OSHA GHS Hazard Communication Standard of 29 CFR section 1910.1200 (OSHA HazCom 2012) by virtue of exemption as 'articles' and as 'consumer products' per 29 CFR section 1910.1200(b)(6)(v) and (ix). Therefore, GHS Safety Data Sheets are not required for our writing instruments.

An 'article' is defined in Section 1910.1200(c) "as a manufactured item other than a fluid or particle:

- Which is formed to a specific shape or design during manufacture;
- Which has end use function(s) dependent in whole or in part on its shape or design during end use; and
- Which, under normal conditions of use, does not release other than very small (minute or trace) amounts of a hazardous chemical and does not pose a physical hazard or health risk to employees."

The 'consumer product' exemption in 29 C.F.R. section 1910.1200(b)(6)(ix) states that:

• Any consumer product or hazardous substance, as those terms are defined in the Consumer Product Safety Act (15 U.S.C. 2051 et seq.) and Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.) respectively, where the employer can show that it is used in the workplace for the purpose intended by the chemical manufacturer or importer of the product, and the use results in a duration and frequency of exposure which is not greater than the range of exposures that could reasonably be experienced by consumers when used for the purpose intended.

OSHA has consistently taken the position, in various rulemaking documents and interpretation letters, "most office products (such as pens, pencils, adhesive tape) to be exempt under the provisions of the rule, either as articles or as consumer products." Markers also fall into these exempted categories. This position is cited currently on <u>OSHA's website</u> in a letter from OSHA Assistant Secretary John A. Pendergrass to U.S. Congressman Jim Bunning. These examples are cited again in OSHA's FAQs on the <u>Hazard Communication Standard</u> which further reinforces that Newell-Rubbermaid writing products are exempt from Hazard Communication requirements, specifically GHS Safety Data Sheet documentation.

A non-exhaustive list is provided below of Newell-Rubbermaid writing instruments that qualify as 'articles' and 'consumer products' that are exempt from GHS Safety Data Sheet requirements:

- Prismacolor Premier Colored Pencils and Sharpeners
- Prismacolor Nupastels and Art Stix and Erasers
- Sharpie Permanent Markers
- Sharpie Pens
- Sharpie Highlighters (Clearview, Accent, etc)
- Paper Mate Pens (InkJoy, FlexGrip, Replay, etc)
- Paper Mate Mechanical Pencils
- Paper Mate Flair Pens
- Paper Mate Pearl Erasers
- Paper Mate Replay Premium Erasable Pens

- Expo Dry Erase Markers
- Expo Whiteboard Cleaner Wipes
- Expo Learning Boards
- Liquid Paper Correction Pens
- Liquid Paper Dryline Correction Tape
- Parker Fountain Pens
- Waterman Fountain Pens
- Rotring Tikky Ballpoint Pens
- Woodcase Pencils (Mongol, Mirado, etc)
- uni-ball pens

3500 Lacey Road | Downers Grove, IL | Phone +1 (630)-829-2500 | www.newellrubbermaid.com

Sharpie.	IRWIN.	Goody	Rubbermaid	GRACO	Calphalon (B)	437ERMAN
LENOX&	Paper Mate	LEVOLOR	PARKER.	DYMO	Rubberneid	Aprica.