

80 Northwest Boulevard • Nashua, NH 03063 Tel: 603-889-8899 • Fax: 603-880-6520 www.deltaeducation.com

Dear Educator,

This file contains the Safety Data Sheets (SDS) for FOSS WEATHER AND WATER, MS NEXT GENERATION as of July 24, 2017.

Because kit contents can sometimes be replaced, we recommend searching our online portal of SDS for current sheets as you need them. To make that searching easier, we have provided a listing below of the items with SDS in this kit.

Portal: http://www.schoolspecialty.com/sds

Part Number to Search	Item Description
021-3730	Batteries-AA
021-0704	Batteries-AAA
030-5777	Food coloring, blue
030-5788	Food coloring, red
191-1117	Salt, kosher
1487504	Smoke emitters
201-1217-0	Thermometer

Note: The part numbers to search for in the portal are often not the same part numbers used to order replacements. To order replacements, please visit www.deltaeducation.com/refilcenter

If you have any questions, please contact Customer Care at 800-258-1302 for assistance.



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PRODUCT SAFETY DATA SHEET

PRODUCT NAME: Eveready / Energizer Battery	Type No.:	Volts:
TRADE NAMES: <u>ENERGIZER, ENERGIZER e², INDUSTRIAL ZMA, HERCULES,</u> <u>EVEREADY, WONDER</u>	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 ³ TWA (total dust) 5 mg/m ³ TWA (respirable fraction)	2 mg/m ³ TWA (respirable fraction)	2-6
Manganese Dioxide (CAS# 1313-13-9)	5 mg/m ³ Ceiling (as Mn)	0.2 mg/m ³ TWA (as Mn)	30-45
Potassium Hydroxide (CAS# 1310-58-3)	None established	2 mg/m ³ Ceiling	4-8
Zinc (CAS# 7440-66-6)	15 mg/m ³ TWA PNOR* (total dust) 5 mg/m ³ TWA PNOR* (respirable fraction)	10 mg/m ³ TWA PNOC** (inhalable particulate) 3 mg/m ³ TWA PNOC** (respirable particulate)	12-25



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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.



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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
pH	Not applicable for an Article
Density (g/cm ³)	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.



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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.

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 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.



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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.

Printing date 08/12/2014

Reviewed on 08/12/2014

1 Identification

- · Product identifier
- Trade name: <u>Blue Coloring</u>
- · Article number: 030-5777
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536 USA
 800-256-2586
- Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org Product safety department
- *Emergency telephone number:* Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture



Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

Hazard-determining components of labeling: 1,2-Propanediol (Propylene Glycol)
Hazard statements Harmful if swallowed. Causes skin and eye irritation.
Precautionary statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).

(Contd. on page 2)

USA

Printing date 08/12/2014

Reviewed on 08/12/2014

Trade name: Blue Coloring

Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4)	(Contd. of page 1)
Health = 1 Fire = 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH1Health = 1FIRE0Fire = 0REACTIVITY $Reactivity = 0$	
· Other hazards	
· Results of PBT and vPvB assessment	
• PBT : Not applicable.	
· vPvB: Not applicable.	
3 Composition/information on ingredients	
• Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
57-55-6 1,2-Propanediol (Propylene Glycol)	14.922%
3844-45-9 Erioglaucine	2.984%

· Table of Nonhazardous Ingredients

94-13-3 propyl 4-hydroxybenzoate

7732-18-5 Water, Deionized, ASTM Type II

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.
- · 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 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

0.1%

81.994%

Printing date 08/12/2014

Reviewed on 08/12/2014

Trade name: Blue Coloring

- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Dilute with plenty of water.
- \cdot Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 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

Precautions for safe handling No special precautions are necessary if used correctly.
 Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

weel

· Components with limit values that require monitoring at the workplace:

57-55-6 1,2-Propanediol (Propylene Glycol)

- TWA Short-term value: 10 mg/m³

WEEL Long-term value: 10 mg/m³

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

USA

Printing date 08/12/2014

Reviewed on 08/12/2014

(Contd. of page 3)

Trade name: Blue Coloring

• **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• *Eye protection: Goggles recommended during refilling.*

9 Physical and chemical properties

Information on basic physical and c General Information	P. op of wes	
Appearance:		
Form:	Liquid	
Color:	Dark blue	
Odor:	Mild	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	210 °C (410 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density at 20 °C (68 °F):	1 g/cm ³ (8.345 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	82.0 %	
Other information	No further relevant information available.	

(Contd. on page 5)

Printing date 08/12/2014

Reviewed on 08/12/2014

Trade name: Blue Coloring

(Contd. of page 4)

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- 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:

· LD/LC50 values that are relevant for classification:

57-55-6 1,2-Propanediol (Propylene Glycol)

Oral	LD50	20.000 mg/kg (rat)
Dermal	LD50	20.800 mg/kg (rabbit)
Irritation of skin	Skin Corrosion/Irritation	(Human)
Irritation of eyes	Eye damage/eye irritation	(rabbit)

- · Primary irritant effect:
- on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

3844-45-9 Erioglaucine

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

 $(Contd. \ on \ page \ 6)$

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USA

Printing date 08/12/2014

Reviewed on 08/12/2014

(Contd. of page 5)

Trade name: Blue Coloring

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- $\cdot \textit{Recommendation: Disposal must be made according to official regulations.}$
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, ADN, IMDG, IATA	Not Applicable
UN proper shipping name DOT, ADN, IMDG, IATA	Not Applicable
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	Not Applicable
Packing group	
DOT, IMDG, IATA	Not Applicable
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

- 3844-45-9 Erioglaucine
- 94-13-3 propyl 4-hydroxybenzoate
- · Proposition 65
- · Chemicals known to cause cancer:
- None of the ingredients is listed.

(Contd. on page 7)

USA

Printing date 08/12/2014

Reviewed on 08/12/2014

(Contd. of page 6)

Trade name: Blue Coloring

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

• *Hazard-determining components of labeling:* 1,2-Propanediol (Propylene Glycol)

• Hazard statements

Harmful if swallowed.

Causes skin and eye irritation.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Take off contaminated clothing and wash before reuse.

If skin irritation occurs: Get medical advice/attention.

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- · 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.

· Department issuing MSDS: Environment protection department.

- · Contact: Mr. Nelson
- Date of preparation / last revision Creation date for SDS 08/12/2014 LS 08/12/2014 / -

(Contd. on page 8)

Printing date 08/12/2014

Reviewed on 08/12/2014

Trade name: Blue Coloring

(Contd. of page 7)
· Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
USA

Printing date 08/12/2014

Reviewed on 07/29/2014

1 Identification

- · Product identifier
- Trade name: <u>Red Coloring</u>
- · Article number: 030-5788
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536 USA
 800-256-2586
- Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org Product safety department
- *Emergency telephone number:* Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture



Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

Hazard-determining components of labeling: 1,2-Propanediol (Propylene Glycol)
Hazard statements Harmful if swallowed. Causes skin and eye irritation.
Precautionary statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).

(Contd. on page 2)

USA

Printing date 08/12/2014

Reviewed on 07/29/2014

Trade name: Red Coloring

Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4)	(Contd. of page 1)
Health = 1 Fire = 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH1Health = 1FIRE0Fire = 0REACTIVITY0Reactivity = 0	
 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 	
3 Composition/information on ingredients	
• Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
57-55-6 1,2-Propanediol (Propylene Glycol)	14.922%
· Table of Nonhazardous Ingredients	

915-67-3 Amaranth Indicator (Acid Red 27), (Red #2)

94-13-3 propyl 4-hydroxybenzoate

7732-18-5 Water, Deionized, ASTM Type II

4 First-aid measures

- \cdot 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.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- \cdot Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- $\cdot \textit{Special hazards arising from the substance or mixture No further relevant information available}.$

(Contd. on page 3)

2.984%

0.1%

81.994%

USA

Printing date 08/12/2014

Reviewed on 07/29/2014

Trade name: Red Coloring

- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- $\cdot \textit{Environmental precautions: } Do not allow to enter sewers/ surface or ground water.$
- \cdot Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 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

Precautions for safe handling No special precautions are necessary if used correctly.
 Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

weel

· Components with limit values that require monitoring at the workplace:

57-55-6 1,2-Propanediol (Propylene Glycol)

- TWA Short-term value: 10 mg/m³

WEEL Long-term value: 10 mg/m³

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

USA

Printing date 08/12/2014

Reviewed on 07/29/2014

(Contd. of page 3)

Trade name: Red Coloring

• **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

General Information		
Appearance:		
Form:	Liquid	
Color:	Dark red	
Odor:	Mild	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	210 °C (410 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density at 20 °C (68 °F):	1 g/cm ³ (8.345 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0~%	
Water:	82.0 %	
Other information	No further relevant information available.	

(Contd. on page 5)

Printing date 08/12/2014

Reviewed on 07/29/2014

Trade name: Red Coloring

(Contd. of page 4)

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- 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:

· LD/LC50 values that are relevant for classification:

57-55-6 1,2-Propanediol (Propylene Glycol)

Oral	LD50	20.000 mg/kg (rat)
Dermal	LD50	20.800 mg/kg (rabbit)
Irritation of skin	Skin Corrosion/Irritation	(Human)
Irritation of eyes	Eye damage/eye irritation	(rabbit)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

915-67-3 Amaranth Indicator (Acid Red 27), (Red #2)

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (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.

(Contd. on page 6)

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Printing date 08/12/2014

Reviewed on 07/29/2014

(Contd. of page 5)

Trade name: Red Coloring

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, ADN, IMDG, IATA	Not Applicable
· UN proper shipping name · DOT, ADN, IMDG, IATA	Not Applicable
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	Not Applicable
· Packing group · DOT, IMDG, IATA	Not Applicable
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.
· UN "Model Regulation":	-

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

915-67-3 Amaranth Indicator (Acid Red 27), (Red #2)

94-13-3 propyl 4-hydroxybenzoate

· Proposition 65

 \cdot Chemicals known to cause cancer:

None of the ingredients is listed.

(Contd. on page 7)

USA

Printing date 08/12/2014

Reviewed on 07/29/2014

(Contd. of page 6)

Trade name: Red Coloring

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

• Hazard-determining components of labeling:

1,2-Propanediol (Propylene Glycol) • Hazard statements

Harmful if swallowed.

Causes skin and eye irritation.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Take off contaminated clothing and wash before reuse.

If skin irritation occurs: Get medical advice/attention.

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- · 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.

· Department issuing MSDS: Environment protection department.

- · Contact: Mr. Nelson
- Date of preparation / last revision Creation date for SDS 08/12/2014 LS 08/12/2014 / -

(Contd. on page 8)

Printing date 08/12/2014

Reviewed on 07/29/2014

Trade name: Red Coloring

(Contd. of page 7) · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B USA

Printing date 11/17/2014

Reviewed on 11/17/2014

1 Identification

- · Product identifier
- · Trade name: Kosher Salt
- Article number: 191-1117
- CAS Number: 7647-14-5
- EC number:
- 231-598-3
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536 USA
 800-256-2586
- Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org Product safety department
- *Emergency telephone number: Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

2 Hazard(s) identification

• *Classification of the substance or mixture The substance is not classified according to the Globally Harmonized System (GHS).*

- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- Hazard statements Not Applicable
- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)

USA

Printing date 11/17/2014

Reviewed on 11/17/2014

Trade name: Kosher Salt

(Contd. of page 1)

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 7647-14-5 Sodium Chloride
- · Identification number(s)
- EC number: 231-598-3

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · 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.
- 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 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 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 Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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

- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

(Contd. on page 3)

USA

Printing date 11/17/2014

Reviewed on 11/17/2014

Trade name: Kosher Salt

(Contd. of page 2)

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

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Crystalline Color: White Odorless · Odor: Not determined. · Odour threshold:

• <i>pH-value at 20</i> • <i>C</i> (68 • <i>F</i>):	6-9	
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Information not °C 1413 °C (2575 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
		(Contd. on page

USA

Printing date 11/17/2014

Reviewed on 11/17/2014

Trade name: Kosher Salt

		(Contd. of page
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
• Density at 20 •C (68 •F):	2.165 g/cm ³ (18.067 lbs/gal)	
• Bulk density at 20 •C (68 •F):	800-1600 kg/m ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water at 20 •C (68 •F):	358 g/l	
· Partition coefficient (n-octanol/wa	t ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Organic solvents:	0.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- \cdot 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:
- · LD/LC50 values that are relevant for classification:

7647-14-5 Sodium Chloride

Oral LD50 3000 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

(Contd. on page 5)

USA

Printing date 11/17/2014

Reviewed on 11/17/2014

Trade name: Kosher Salt

(Contd. of page 4)

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Assessment by list): 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: Smaller quantities can be disposed of with household waste.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT, IMDG, IATA	Not regulated	
· UN proper shipping name		
· DOT, IATA	Not regulated	
·IMDG	Not Regulated	
· Transport hazard class(es)		
· DOT, IMDG, IATA		
· Class	Not regulated	
· Packing group		
· DOT, IMDG, IATA	Not regulated	
· Environmental hazards:		
· Marine pollutant:	No	

USA

Printing date 11/17/2014

Reviewed on 11/17/2014

Trade name: Kosher Salt

	(Contd. of)	page :
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
· Transport/Additional information:		
· DOT · Remarks:	Not regulated	
· IMDG · Remarks:	Not regulated	
· IATA · Remarks:	Not regulated	
· UN "Model Regulation":	Not regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

 \cdot Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements Not Applicable

· Hazard pictograms Not Applicable

· Signal word Not Applicable

· Hazard statements Not Applicable

(Contd. on page 7)

USA

Printing date 11/17/2014

Reviewed on 11/17/2014

Trade name: Kosher Salt

(Contd. of page 6)

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.

· Department issuing SDS: Environment protection department.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Date of preparation / last revision 11/17/2014 / Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

[·] Contact: Mr. Nelson



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SDS

Common Name: SPLINTAX Manufacturer: BJORNAX SWEDEN SDS Revision Date: 10/7/2013 SDS Format: GHS-EU

Grainger Item Number(s): 22CU34, 22CU35, 46C507, 9W533 Manufacturer Model Number(s):

BJORNAX SMOKE PRODUCTS

SAFETY DATA SHEET

IN ACCORDANCE WITH 453/2010 AND 1272/2008

(ALL REFERENCES TO EU REGULATIONS AND DIRECTIVES ARE ABBREVIATED INTO ONLY THE NUMERIC TERM)

ISSUED: 2013-10-07

REPLACES ISSUED: SDS 2012-05-28

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE

AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER:

TRADE NAME: SPLINTAX

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

IDENTIFIED USES: SMOKE FOR LEAKAGE TESTS AND AIR FLOW STUDIES

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

COMPANY: BJORNAX AB STRASSA FORETAGSBY SE-71177 STRASSA SWEDEN

TELEPHONE: +46 581 43150

E-MAIL: INFO@BJORNAX.SE

1.4. EMERGENCY TELEPHONE NUMBER: IN CASE OF EMERGENCY CONTACT TOXICOLOGICAL INFORMATION, EMERGENCY TEL 112 (WITHIN EUROPE) OR 911 (FOR USA AND CANADA). FOR OTHER COUNTRIES, USE THE BUILT-IN EMERGENCY NUMBER IN YOUR CELL PHONE

FOR NON-EMERGENCY POISON INFORMATION, SEE HTTP://WWW.WHO.INT/IPCS/POISONS/CENTRE/DIRECTORY/EURO/EN/

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

CLASSIFICATION IN ACCORDANCE WITH 1272/2008: IRRITATES EYES (CATEGORY 2) TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS (CATEGORY CRON 2)

CLASSIFICATION IN ACCORDANCE WITH 1999/45/EG: HARMFUL, HAZARDOUS TO THE AQUATIC ENVIRONMENT; XN N; R20/22 R36 R51/53.

2.2. LABEL ELEMENTS:

LABEL INFORMATION IN ACCORDANCE WITH 1272/2008:

HAZARD PICTOGRAMS: EXCLAMATION MARK ENVIRONMENT

SIGNAL WORDS: WARNING

HAZARD STATEMENTS: H319: CAUSES SERIOUS EYE IRRITATION H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PRECAUTIONARY STATEMENTS: P210: KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES, OR HOT SURFACES. - NO SMOKING

P273: AVOID RELEASE TO THE ENVIRONMENT

P280: WEAR EYE PROTECTION

LABEL INFORMATION IN ACCORDANCE WITH 1999/45/EG: SEE SECTION 16.

2.3. OTHER HAZARDS: THE PRODUCT PRODUCES SMOKE WHICH CAN CAUSE IRRITATION UPON CONTACT WITH THE EYES OR INHALATION UNDER CONDITIONS OF LONG PERIODS OF EXPOSURE OR INCORRECT USE. IN CASE OF UNCERTAINTY ABOUT HOW THE PRODUCT SHOULD BE USED, PLEASE CONTACT THE MANUFACTURER OR THE COMPANY FROM WHICH THE PRODUCT WAS ORIGINALLY PURCHASED.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

THIS PRODUCT IS COMPOSED OF A MIXTURE OF SEVERAL SOLID SUBSTANCES.

3.2. MIXTURES:

NOTE THAT THE TABLE SHOWS KNOWN HAZARDS OF THE INGREDIENTS IN A PURE FORM. THESE HAZARDS ARE REDUCED OR ELIMINATED WHEN MIXED OR DILUTED, SEE SECTION 16D.

CONSTITUENT	CLASSIFICATION	CONCENTRATION
POTASSIUM CHLORATE: CAS NO: 3811-04-9 EC NO: 223-289-7 INDEX NO: 017-004-00-3	AQUATIC CHRONIC 2 ACUTE TOX 4DUST ACUTE TOX 4ORAL OX SOL 1 H411, H332, H302, H271 XN O N; R9 R20/22 R51/53	37%
AMMONIUM CHLORIDE: CAS NO: 12125-02-9 EC NO: 235-186-4 INDEX NO: 017-014-00-8	ACUTE TOX 4ORAL EYE IRRIT 2 H302, H319 XN; R22 R36	26%

EXPLANATIONS TO THE CLASSIFICATION AND LABELLING OF THE INGREDIENTS ARE GIVEN IN SECTION 16E. OFFICIAL ABBREVIATIONS ARE PRINTED IN NORMAL FONT. TEXT IN ITALICS ARE SPECIFICATIONS AND/OR COMPLEMENT USED IN THE CALCULATION OF THE HAZARDS OF THIS MIXTURE, SEE SECTION 16B ALSO CONTAINS COMPONENT(S) NOT NECESSARY TO LABEL.

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES:

GENERALLY: NO SPECIAL MEASURES ARE CONSIDERED TO BE NECESSARY. IF SYMPTOMS DO OCCUR HOWEVER, CALL A DOCTOR/PHYSICIAN.

UPON BREATHING IN: INHALATION OF CHEMICALS FROM THE PRODUCT IN NORMAL USE IS NOT APPROPRIATE.

FOR GENERATED SMOKE: IN THE CASE OF OVEREXPOSURE TO GENERATED SMOKE, MOVE THE AFFECTED PERSON TO FRESH AIR. IF SYMPTOMS PERSIST, CONSULT A DOCTOR.

UPON CONTACT WITH THE EYES: EYE CONTACT WITH CHEMICALS FROM THE PRODUCT IN NORMAL USE IS NOT APPROPRIATE.

FOR GENERATED SMOKE: IF SYMPTOMS OCCUR, FLUSH WITH LUKEWARM WATER WITH THE EYE OR EYES WIDE OPEN. IF SYMPTOMS PERSIST, CONSULT A DOCTOR. IN THE CASE OF A BROKEN OR TAMPERED PRODUCT, THE PROCEDURE FOR THE CONSTITUENT CHEMICALS IS AS FOLLOWS: FLUSH IMMEDIATELY WITH LUKEWARM WATER FOR 15 - 20 MIN WITH THE EYE OR EYES WIDE OPEN. IF SYMPTOMS PERSIST, CONSULT A DOCTOR.

UPON SKIN CONTACT: SKIN CONTACT WITH CHEMICALS FROM THE PRODUCT IN NORMAL USE IS NOT APPROPRIATE. IN CASE OF BROKEN OR TAMPERED PRODUCTS THE PROCEDURE FOR THE CONSTITUENT CHEMICALS IS AS FOLLOWS: WASH THE SKIN WITH SOAP AND WATER.

UPON INGESTION: FIRST RINSE THE MOUTH THOROUGHLY WITH A LOT OF WATER AND SPIT OUT THE WATER. THEN DRINK AT LEAST 1/2 LITER OF WATER AND CALL A DOCTOR/PHYSICIAN. DO NOT INDUCE VOMITING.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: INFORMATION ON SYMPTOMS ARE AMBIGUOUS OR MISSING FOR THIS PRODUCT.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: SYMPTOMATIC TREATMENT.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA:

RECOMMENDED EXTINGUISHING AGENTS: EXTINGUISH WITH WATER.

UNSUITABLE EXTINGUISHING AGENTS: MUST NOT BE EXTINGUISHED WITH FOAM, POWDER OR CARBON DIOXIDE.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: IN CASE OF FIRE, SUBSTANCES HAZARDOUS TO HEALTH, OR SUBSTANCES HARMFUL IN OTHER RESPECTS, MAY BE DISPERSED. COMBUSTIBLE SOLID.

5.3. ADVICE FOR FIRE-FIGHTERS: IN CASE OF FIRE USE A RESPIRATOR MASK.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: AVOID DISCHARGE INTO SEWERS.

6.2. ENVIRONMENTAL PRECAUTIONS: NOT APPLICABLE

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: COLLECT.

RESIDUES LEFT BEHIND AFTER CLEANING SHALL BE TREATED AS HAZARDOUS WASTE. FOR FURTHER INFORMATION, CONTACT THE LOCAL AUTHORITY SANITISATION WORKS. PRESENT THIS SAFETY DATA SHEET.

6.4. REFERENCE TO OTHER SECTIONS: NOT APPLICABLE

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING:

THIS PRODUCT SHOULD BE STORED WELL OUT OF REACH OF YOUNG CHILDREN AND KEPT SAFELY APART FROM PRODUCTS INTENDED FOR CONSUMPTION. WHEN USING, PLACE THE PRODUCT ON AN INCOMBUSTIBLE BASE AND CHECK THAT THE PRODUCT HAS GONE OUT COMPLETELY BEFORE IT IS DISCARDED.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: HANDLE IN PREMISES WITH MODERN VENTILATION STANDARDS, STORE IN A DRY PLACE.

MUST NOT BE STORED IN THE VICINITY OF COMBUSTIBLE MATERIAL.

KEEP AWAY FROM MOISTURE.

STORE ONLY IN THE ORIGINAL PACKAGE.

7.3. SPECIFIC END USES: NOT RELEVANT.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

📥 top

8.1. CONTROL PARAMETERS:

8.1.1. NATIONAL LIMIT VALUES, UNITED KINGDOM: ALL INGREDIENTS (CF. SECTION 3) LACK OCCUPATIONAL EXPOSURE LIMIT VALUES.

8.2. EXPOSURE CONTROLS: IN TERMS OF MINIMIZING RISKS, ATTENTION MUST BE PAID TO THE HEALTH HAZARDS (SEE SECTIONS 2, 3 AND 10) OF THIS PRODUCT OR ANY OF ITS INGREDIENTS ACCORDING TO EU DIRECTIVES 89/391 AND 98/24 AND NATIONAL OCCUPATIONAL LEGISLATION.

EYE PROTECTION SHOULD BE WORN IF THERE IS ANY DANGER OF DIRECT EXPOSURE OR SPLASHING.

DUST FILTER IIB (P2) MAY BE REQUIRED.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

A) APPEARANCE: FORM: SOLID ARTICLE COLOUR: WHITE

- B) ODOUR: NO SMELL OR UNCHARACTERISTIC SMELL
- C) ODOUR THRESHOLD: NOT APPLICABLE
- D) PH: NOT APPLICABLE
- E) MELTING POINT/FREEZING POINT: NOT APPLICABLE
- F) INITIAL BOILING POINT AND BOILING RANGE: NOT APPLICABLE
- G) FLASH POINT: NOT APPLICABLE
- H) EVAPORATION RATE: NOT APPLICABLE
- I) FLAMMABILITY (SOLID, GAS): NOT APPLICABLE
- J) UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: NOT APPLICABLE
- K) VAPOUR PRESSURE: NOT APPLICABLE
- L) VAPOUR DENSITY: NOT APPLICABLE
- M) RELATIVE DENSITY: NOT APPLICABLE
- N) SOLUBILITY: NOT APPLICABLE
- O) PARTITION COEFFICIENT N-OCTANOL/WATER: NOT APPLICABLE

- P) AUTO-IGNITION TEMPERATURE: >200 DEG. C
- Q) DECOMPOSITION TEMPERATURE: NOT APPLICABLE
- R) VISCOSITY: NOT APPLICABLE
- S) EXPLOSIVE PROPERTIES: NOT APPLICABLE
- T) OXIDISING PROPERTIES: NOT APPLICABLE
- 9.2. OTHER INFORMATION: NO DATA AVAILABLE

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY: THE PRODUCT CONTAINS NO SUBSTANCES WHICH CAN LEAD TO HAZARDOUS REACTIONS AT NORMAL USE.

10.2. CHEMICAL STABILITY: THE PRODUCT IS STABLE AT NORMAL STORAGE AND HANDLING CONDITIONS.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS: NOT INDICATED

10.4. CONDITIONS TO AVOID: AVOID HEAT, SPARKS AND OPEN FLAMES.

10.5. INCOMPATIBLE MATERIALS: AVOID MIXING WITH ORGANIC MATERIAL.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS: NOT INDICATED

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS:

GENERAL OR UNSPECIFIC TOXICITY: NOT INDICATED

ACUTE EFFECTS: THE MIXTURE HAS NOT BEEN TESTED AS A WHOLE BUT CONSIDERED TO BE A NON-ACUTELY TOXIC SUBSTANCE, BASED ON THE FULL INFORMATION ON THE TOXICITY OF ALL THE INGREDIENTS.

HARMFULNESS: THE PRODUCT IS A HEALTH HAZARD.

CORROSIVE AND IRRITATING EFFECTS: IRRITANT ON EYES, SKIN, MUCOUS MEMBRANES AND THE UPPER RESPIRATORY TRACT.

RELEVANT TOXICOLOGICAL PROPERTIES:

POTASSIUM CHLORATE: LD50 RABBIT 24H: >2000 MG/KG LD50 RAT 24H: 1870 MG/KG

AMMONIUM CHLORIDE: LD50 RAT 24H: 1650 MG/KG

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY: CONTAINS SUBSTANCE THAT IS TOXIC TO HERBS. PREVENT DISCHARGE TO SOIL, WATER AND AIR.

FOR ENVIRONMENTAL IMPACT, SEE ALSO SECTION 2.

12.2. PERSISTENCE AND DEGRADABILITY: NO INFORMATION ABOUT PERSISTENCE OR DEGRADABILITY EXISTS BUT THERE IS NO REASON TO SUPPOSE THAT THE PRODUCT IS PERSISTENT.

12.3. BIOACCUMULATIVE POTENTIAL: NO INFORMATION EXISTS ON BIOACCUMULATION, BUT THERE IS NO CAUSE FOR CONCERN IN RESPECT OF THIS.

12.4. MOBILITY IN SOIL: NO INFORMATION ABOUT MOBILITY IN THE NATURE EXISTS BUT THERE IS NO REASON TO SUPPOSE THE PRODUCT TO BE ECOLOGICALLY HARMFUL BECAUSE OF THIS.

12.5. RESULTS OF PBT AND VPVB ASSESSMENT: NO CHEMICAL SAFETY REPORT HAS BEEN EXECUTED.

12.6. OTHER ADVERSE EFFECTS: NOT INDICATED

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS:

WASTE HANDLING FOR THE PRODUCT: THE PRODUCT AFTER USE IS NOT CLASSED AS HAZARDOUS WASTE. UNUSED OR BROKEN PRODUCTS ARE CLASSED AS HAZARDOUS WASTE. CF. ALSO NATIONAL WASTE REGULATIONS.

CLASSIFICATION ACCORDING TO 2006/12: RECOMMENDED LOW-CODE: 16 03 03 INORGANIC WASTES CONTAINING DANGEROUS SUBSTANCES.

RECYCLING OF THE PRODUCT: NOT INDICATED

SECTION 14: TRANSPORT INFORMATION

WHERE NOT OTHERWISE STATED THE INFORMATION APPLIES TO ALL OF THE UN MODEL REGULATIONS, I.E. ADR (ROAD), RID (RAILWAY), ADN (INLAND WATERWAYS), IMDG (SEA), AND ICAO (IATA) (AIR).

- 14.1. UN NUMBER: NOT CLASSIFIED AS DANGEROUS GOODS
- 14.2. UN PROPER SHIPPING NAME: NOT APPLICABLE
- 14.3. TRANSPORT HAZARD CLASS(ES): NOT APPLICABLE
- 14.4. PACKING GROUP: NOT APPLICABLE
- 14.5. ENVIRONMENTAL HAZARDS: NOT APPLICABLE
- 14.6. SPECIAL PRECAUTIONS FOR USER: NOT APPLICABLE
- 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC

CODE: NOT APPLICABLE

14.8 OTHER TRANSPORT INFORMATION: STOWAGE CATEGORY NOT INDICATED. EMERGENCY SCHEDULE (EMS) FOR FIRE (IMDG) NOT INDICATED. EMERGENCY SCHEDULE (EMS) FOR SPILLAGE (IMDG) NOT INDICATED.

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE: NOT APPLICABLE.

15.2. CHEMICAL SAFETY ASSESSMENT: ASSESSMENT AND CHEMICAL SAFETY REPORT IN ACCORDANCE WITH 1907/2006 ANNEX I HAS NOT YET BEEN PERFORMED.

SECTION 16: OTHER INFORMATION

16A. INDICATION OF WHERE CHANGES HAVE BEEN MADE TO THE PREVIOUS VERSION OF THE SAFETY DATA SHEET REVISIONS OF THIS DOCUMENT:

EARLIER VERSIONS: 2012-05-28: REVISIONS OF THIS DOCUMENT HAS, WHERE NOT OTHERWISE STATED, BEEN CAUSED BY CHANGES IN THE REGULATIONS

16B. LEGEND TO ABBREVIATIONS AND ACRONYMS USED IN THE SAFETY DATA SHEET:

FULL TEXTS FOR HAZARD CLASS AND CATEGORY CODE MENTIONED IN SECTION 3: AQUATIC CHRONIC 2: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS (CATEGORY CRON 2)

ACUTE TOX 4DUST: ACUTE TOXICITY (CATEGORY 4 DUST)

ACUTE TOX 4ORAL: ACUTE TOXICITY (CATEGORY 4 ORAL)

OX SOL 1: OXIDISING SOLIDS (VERIFIED CATEGORY 1)

NO PHYS HAZ: NON-ASSIGNED PHYSICAL HAZARD

EYE IRRIT 2: IRRITATES EYES (CATEGORY 2)

COMPREHENSIVE DEFINITION OF THE HAZARDS MENTIONED IN SECTION 2:

EYE IRRIT 2: IF, WHEN APPLIED TO THE EYE OF AN ANIMAL, A SUBSTANCE PRODUCES AT LEAST IN 2 OF 3 TESTED ANIMALS, A POSITIVE RESPONSE OF: CORNEAL OPACITY: >=1 AND/OR IRITIS: >=1, AND/OR CONJUNCTIVAL REDNESS: >=2 AND/OR CONJUNCTIVAL OEDEMA (CHEMOSIS): >=2

CALCULATED AS THE MEAN SCORES FOLLOWING GRADING AT 24, 48 AND 72 HOURS AFTER INSTALLATION OF THE TEST MATERIAL, AND WHICH FULLY REVERSES WITHIN AN OBSERVATION PERIOD OF 21 DAYS

AQUATIC CHRONIC 2: CHRONIC (LONG-TERM) AQUATIC HAZARD:

48 HR EC50 (FOR CRUSTACEA): 1-10 MG/L AND/OR 72 OR 96 HR ERC50 (FOR ALGAE OR OTHER AQUATIC PLANTS): 1-10 MG/L AND THE SUBSTANCE IS NOT RAPIDLY BIODEGRADABLE AND/OR THE EXPERIMENTALLY DETERMINED BCF >=500 (OR, IF ABSENT, THE LOG KOW >=4), UNLESS THE CHRONIC TOXICITY NOECS ARE >1 MG/L EXPLANATIONS OF THE ABBREVIATIONS IN SECTION 14: ADR: EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS BY ROAD RID: REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS BY RATT ADN: EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS IMDG: INTERNATIONAL MARITIME DANGEROUS GOODS CODE TCAO: INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO, 999 UNIVERSITY STREET, MONTREAL, QUEBEC H3C 5H7, CANADA) IATA: THE INTERNATIONAL AIR TRANSPORT ASSOCIATION 16C. KEY LITERATURE REFERENCES AND SOURCES FOR DATA: SOURCES FOR DATA: PRIMARY DATA FOR THE CALCULATION OF THE HAZARDS HAS PREFERENTIALLY BEEN TAKEN FROM THE OFFICIAL EUROPEAN CLASSIFICATION LIST, 1272/2008 ANNEX I, AS UPDATED TO 2013-10-11. WHERE SUCH DATA WAS LACKING, ON THE SECOND HAND THE DOCUMENTATION ON WHICH THIS OFFICIAL CLASSIFICATION IS BASED WAS USED, E.G. IUCLID (INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE). ON THE THIRD HAND, INFORMATION WAS USED FROM REPUTABLE INTERNATIONAL CHEMICAL SUPPLIERS, AND ON THE FOURTH HAND FROM OTHER AVAILABLE INFORMATION, E.G. SAFETY DATA SHEETS FROM OTHER SUPPLIERS OR INFORMATION FROM NON-PROFIT ASSOCIATIONS, WHEREBY THE RELIABILITY OF THE SOURCE WAS JUDGED BY AN EXPERT. IF, IN SPITE OF THIS, RELIABLE INFORMATION WAS NOT FOUND, THE HAZARDS WERE JUDGED BY EXPERT OPINIONS BASED ON THE KNOWN PROPERTIES OF SIMILAR SUBSTANCES, AND ACCORDING TO THE PRINCIPLES IN 1907/2006 AND 1272/2008. FULL TEXTS FOR REGULATIONS MENTIONED IN THIS SAFETY DATA SHEET: 453/2010: COMMISSION REGULATION (EU) NO 453/2010 OF 20 MAY 2010 AMENDING REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ON THE REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH) 1272/2008: REGULATION (EC) NO 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 DECEMBER 2008 ON CLASSIFICATION, LABELLING AND PACKAGING OF SUBSTANCES AND MIXTURES, AMENDING AND REPEALING DIRECTIVES 67/548/EEC AND 1999/45/EC, AND AMENDING REGULATION (EC) NO 1907/2006 1999/45/EG:

96 HR LC50 (FOR FISH): 1-10 MG/L AND/OR

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 31

MAY 1999 CONCERNING THE APPROXIMATION OF THE LAWS, REGULATIONS AND ADMINISTRATIVE PROVISIONS OF THE MEMBER STATES RELATING TO THE CLASSIFICATION, PACKAGING AND LABELLING OF DANGEROUS PREPARATIONS 89/391: COUNCIL DIRECTIVE (89/391/EEC OF 12 JUNE 1989 ON THE INTRODUCTION OF MEASURES TO ENCOURAGE IMPROVEMENTS IN THE SAFETY AND HEALTH OF WORKERS AT WORK 98/24: COUNCIL DIRECTIVE 98/24/EC OF 7 APRIL 1998 ON THE PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK (FOURTEENTH INDIVIDUAL DIRECTIVE WITHIN THE MEANING OF ARTICLE 16(1) OF DIRECTIVE 89/391/EEC) 2006/12: DIRECTIVE 2006/12/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 5 APRIL 2006 ON WASTE 1907/2006: REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 DECEMBER 2006 CONCERNING THE REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO 793/93 AND COMMISSION REGULATION (EC) NO 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC AND COMMISSION DIRECTIVES 91/155/EEC, 93/67/EEC, 93/105/EC AND 2000/21/EC ANNEX I 16D. METHODS OF EVALUATING INFORMATION REFERRED TO IN 1272/2008 ARTICLE 9 WHICH WAS USED FOR THE PURPOSE OF CLASSIFICATION: THE CALCULATION OF THE HAZARDS OF THIS MIXTURE HAS BEEN PERFORMED AS AN EVALUATION BY APPLYING A WEIGHT OF EVIDENCE DETERMINATION USING EXPERT JUDGEMENT IN ACCORDANCE WITH 1272/2008 ANNEX I, WEIGHING ALL AVAILABLE INFORMATION HAVING A BEARING ON THE DETERMINATION OF THE HAZARDS OF THE MIXTURE, AND IN ACCORDANCE WITH 1907/2006 ANNEX XI. 16E. LIST OF RELEVANT R PHRASES, HAZARD STATEMENTS, SAFETY PHRASES AND/OR PRECAUTIONARY STATEMENTS: FULL TEXT FOR RISK PHRASES MENTIONED IN SECTION 3: R9: EXPLOSIVE WHEN MIXED WITH COMBUSTIBLE MATERIAL R20/22: HARMFUL BY INHALATION AND IF SWALLOWED R51/53: TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT R22: HARMFUL IF SWALLOWED R36: IRRITATING TO EYES FULL TEXTS FOR HAZARD STATEMENTS MENTIONED IN SECTION 3: H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS H332: HARMFUL IF INHALED H302: HARMFUL IF SWALLOWED H271: MAY CAUSE FIRE OR EXPLOSION; STRONG OXIDIZER H319: CAUSES SERIOUS EYE IRRITATION

16F. ADVICE ON ANY TRAINING APPROPRIATE FOR WORKERS TO ENSURE PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT:

OTHER RELEVANT INFORMATION:

LABEL INFORMATION IN ACCORDANCE WITH 1999/45/EG: HAZARD SYMBOL: HARMFUL HAZARDOUS TO THE AQUATIC ENVIRONMENT R-PHRASES: R20/22: HARMFUL BY INHALATION AND IF SWALLOWED R36: IRRITATING TO EYES R51/53: TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT S-PHRASES: S22: DO NOT BREATHE DUST S25: AVOID CONTACT WITH EYES S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE S29: DO NOT EMPTY INTO DRAINS S37: WEAR SUITABLE GLOVES S46: IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL EDITORIAL INFORMATION:

THIS SAFETY DATA SHEET HAS BEEN GENERATED BY THE PROGRAM KEMRISK(R^*), KEMRISK SWEDEN AB, TEKNIKRINGEN 10, SE-583 30 LINKOPING, SWEDEN.

SAFETY DATA SHEET FOR SPLINTAX. EDITION 2013-10-07

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 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, 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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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.



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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. 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

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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	

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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.

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