

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: October 16, 2018

Revision: October 16, 2018

1 Identification

· Product identifier

· Trade name: Estes Sonic Model Rocket Igniter

· Other means of identification: No other identifiers

· Recommended use and restriction on use

· Recommended use: Model Rocketry

· Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Estes Industries, LLC 1295 H Street Penrose, CO 81240 USA (719) 372-6565

· Emergency telephone number:

ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

Expl. 1.4 H204 Fire or projection hazard.

· Label elements

This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission. GHS labelling is not required per 29CFR1910.1200(b)(5)(v). The labeling below applies to industrial/professional products.

- · GHS label elements
- Hazard pictograms:



GHS01

Signal word: Warning

Hazard statements:H204 Fire or projection hazard.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P370+P380 In case of fire: Evacuate area.

P373 DO NOT fight fire when fire reaches explosives.

P374 Fight fire with normal precautions from a reasonable distance.

P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Other hazards There are no other hazards not otherwise classified that have been identified.

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:				
7429-90-5	aluminium powder (stabilised)	<10%		
	♦ Flam. Sol. 1, H228; Water-react. 2, H261			
7439-95-4	magnesium powder (pyrophoric)	<10%		
	♦ Pyr. Sol. 1, H250; Water-react. 1, H260			
9004-70-0	Nitrocellulose, colloided, granular	<10%		
	♦ Expl. 1.1, H201			

· **Additional information:** For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

In case of minor burns, flush with cool water.

Seek immediate help for blistering or open wounds.

· After eye contact:

Unlikely route of exposure.

Seek medical treatment in case of complaints.

- After swallowing: Do not induce vomiting; immediately call for medical help.
- · Most important symptoms and effects, both acute and delayed:

Adverse health effects are not reasonably expected from normal use of product.

· Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

Water in flooding quantities.

Fight fire with normal precautions from a reasonable distance.

- For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information:

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water in flooding quantities.

6 Accidental release measures

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- · Personal precautions, protective equipment and emergency procedures Keep away from ignition sources.
- Environmental precautions Avoid release to the environment.
- · Methods and material for containment and cleaning up

Pick up manually.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- ·Handling
- · Precautions for safe handling:

Keep out of reach of small children.

Handle with care.

Keep ignition sources away.

- · Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

Storage area should be dry and well-ventilated.

Protect from humidity and water.

Store at 32-140 °F / 0-60 °C.

· Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components w	Components with limit values that require monitoring at the workplace:				
7429-90-5 aluminium powder (stabilised)					
PEL (USA)	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction				
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.				
TLV (USA)	Long-term value: 1* mg/m³ as Al; *as respirable fraction				
EL (Canada)	Long-term value: 1.0 mg/m³ respirable, as Al				
EV (Canada)	Long-term value: 5 mg/m³ aluminium-containing (as aluminium)				
LMPE (Mexico)	Long-term value: 1* mg/m³ A4, *fracciòn respirable				

Exposure controls

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· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- Engineering controls: Do not subject to grinding/shock/friction.
- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands: Not required under normal conditions of use.
- Eye protection: Not required under normal conditions of use.
- · Body protection: Not required under normal conditions of use.
- Limitation and supervision of exposure into the environment

No relevant information available.

· Risk management measures No relevant information available.

9 Physical and chemical prope	9 Physical and chemical properties				
Information on basic physical a	nd chemical properties				
· Appearance:					
Form:	Solid material				
Color:	According to product specification				
· Odor:	Odorless				
· Odor threshold:	Not determined.				
· pH-value:	Not applicable.				
Melting point/Melting range:	Not determined.				
· Boiling point/Boiling range:	Not determined.				
· Flash point:	Not applicable.				
· Flammability (solid, gaseous):	Fire or projection hazard.				
· Auto-ignition temperature:	Not determined.				
· Decomposition temperature:	Not determined.				
· Danger of explosion:	Not determined.				
· Explosion limits					
Lower:	Not determined.				
Upper:	Not determined.				
· Oxidizing properties:	Contains oxidizing agent.				
· Vapor pressure:	Not applicable.				
· Density:					
Relative density:	Not determined.				
Vapor density:	Not applicable.				
Evaporation rate:	Not applicable.				
· Solubility in / Miscibility with					
Water:	Partly soluble.				
· Partition coefficient (n-octanol/wat	er): Not determined.				
· Viscosity					
Dynamic:	Not applicable.				
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Kinematic: Not applicable.

• Other information No relevant information available.

10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability:
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Contact with alkali releases flammable gases.

Contact with acids releases toxic gases.

Exothermic reaction with acids.

· Conditions to avoid

Excessive heat.

Sources of ignition: sparks, open flame, incompatible materials

Incompatible materials

Strong acids

Alkalis

· Hazardous decomposition products

Possible in traces.

Carbon monoxide and carbon dioxide

Toxic metal oxide smoke

Nitrogen oxides

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.
- · Carcinogenic categories
- IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

- · Probable route(s) of exposure: Skin contact.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

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

This statement was deduced from the properties of the single components.

Due to available data on eliminability/decomposition and bioaccumulation potential, a prolonged damage of the environment is unlikely.

· Other adverse effects No relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

To dispose of a small quantity of product, soak in water for at least 5 minutes, then dispose of remnants in an ordinary manner. Optionally, simply fire igniter and discard (do not hold igniter during firing). For large quantities, incineration in a licensed facility is preferable.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA UN0454
- · UN proper shipping name
- · DOT, IATA Igniter
 · ADR, IMDG IGNITER
- Transport hazard class(es)
- · DOT



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Class	1.4S	
Label	1.4S	
ADR, IMDG, IATA		
	1.4	
Class	1.4S	
Label	1.4S	
Packing group		
DOT	II	
ADR, IMDG, IATA	no packing group	
Environmental hazards		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
EMS Number:	F-B,S-X	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

7429-90-5 aluminium powder (stabilised)

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

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· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

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.

· Date of preparation / last revision October 16, 2018 / -

· Abbreviations and acronyms:

ADR: 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistant, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Expl. 1.1: Explosives – Division 1.1

Expl. 1.4: Explosives – Division 1.4 Flam. Sol. 1: Flammable solids – Category 1

Pyr. Sol. 1: Pyrophoric solids – Category 1

Pyr. Sol. 1: Pyrophoric solids – Category 1

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1 Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2

·Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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