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

- · 1.1 Product identifier
- · Trade name: Solar Starter
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation Model Rocket Ignition
- · 1.3 Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

Estes-Cox Corp. d/b/a Estes Industries P.O. Box 227, 1295 H Street Penrose. CO 81240 USA Tel (719) 372-6565



· 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

### 2 Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The product is not classified according to GHS regulations.

The product is not classified according to the CLP regulation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- · Information concerning particular hazards for human and environment:

No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet. The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

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

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 N/A
- · Hazard pictograms N/A
- · Signal word N/A
- · Hazard-determining components of labelling: None.
- · Hazard statements N/A
- · Hazard description:
- · WHMIS-symbols: Not hazardous under WHMIS.
- NFPA ratings (scale 0 4)



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· HMIS-ratings (scale 0 - 4)

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Health = 0 Fire = 0 REACTIVITY | Reactivity = 0

· HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

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

### 3 Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

CAS: 9005-25-8 substance with a Community workplace exposure limit <25% Starch EINECS: 232-679-6

· Additional information: For the wording of the listed risk phrases refer to section 16.

#### 4 First aid measures

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Unlikely route of exposure.
- · After skin contact: Clean with water and soap.
- · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Do not induce vomiting: call for medical help immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed Gastric or intestinal disorders.
- · Hazards No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information No further relevant information available.

#### 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- **6.2 Environmental precautions:** No special measures required.
- · 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

· 6.4 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

- · 7.1 Precautions for safe handling No special measures required.
- Information about fire and explosion protection: No special measures required.
- · 7.2 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: No special requirements.
- · 7.3 Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

Ingredients with limit value	es that require n	nonitoring at th	e workplace:

# PEL (USA) REL (USA) TLV (USA) EL (Canada) EV (Canada) 15\* 5\*\* mg/m³ \*total dust \*\*respirable fraction 10\* 5\*\* mg/m³ \*total dust \*\*respirable fraction 10 mg/m³ EV (Canada) 10 mg/m³ total dust

· **DNELs** No further relevant information available.

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- · PNECs No further relevant information available.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures: No further relevant information available.
- · Respiratory protection: Not required under normal conditions of use.
- Protection of hands: Gloves not required under normal conditions of use.
- Eye protection: Not required under normal conditions of use.
- · Body protection: Not required.
- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

Physical and chemical prope		
9.1 Information on basic physical and General Information Appearance:	and chemical properties	
Form:	Solid material	
Colour:	According to product specification	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not self-igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	·
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	

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(Contd. of page 4) · Solubility in / Miscibility with Insoluble. water: · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not applicable. Kinematic: Not applicable. · Solvent content: Organic solvents: Not determined. Solids content: Not determined. · 9.2 Other information No further relevant information available.

### 10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

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

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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

### 12 Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: May be disposed of with household waste.

14.1 UN-Number		
DOT, ADR, ADN, IMDG, IATA	N/A	
14.2 UN proper shipping name DOT, ADR, ADN, IMDG, IATA	N/A	
14.3 Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	N/A	
14.4 Packing group DOT, ADR, IMDG, IATA	N/A	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann MARPOL73/78 and the IBC Code	ex II of Not applicable.	
UN "Model Regulation":	-	

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5 Regulatory information	
· 15.1 Safety, health and environmental regulations/legislation specific · United States (USA) · SARA	for the substance or mixture
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):	
All ingredients are listed.	
Proposition 65 (California):	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· 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.	
· IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH)	
9005-25-8 Starch	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
· Canada	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	

Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

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• 15.2 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.

#### · 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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

#### · Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com