Material Name: Salt System 356

**Section 1 - Identification of the Substance/Preparation and the Company/Undertaking**

Part Number: 356
Chemical Name: Hermetically sealed container containing a salt temperature detection system.
Product Use: Temperature detection
Synonyms: Eutectic Salt System 356

**Section 2 - Composition / Information on Ingredients**
This product has been evaluated using criteria specified in European Union Directives 67/548/EEC and 1999/45/EC.

Please contact Kidde Aerospace for specific component information.

**Section 3 - Hazards Identification**
Human and Environmental Hazards
This product is exempt from classification as per European Union Directives 67/548/EEC and 1999/45/EC as a manufactured article.

**Section 4 - First Aid Measures**
First Aid: Eyes
Not expected under normal use. Call a physician if irritation develops or persists.

First Aid: Skin
No effects expected under normal use. Call a physician if irritation develops or persists.

First Aid: Ingestion
Ingestion is highly unlikely. In the event of ingestion, do not induce vomiting. Call a physician immediately.

First Aid: Inhalation
Remove affected person to fresh air. If irritation or difficult breathing develops or persists, seek medical attention.

**Section 5 - Fire Fighting Measures**
General Fire Hazards
Not a fire hazard. Sealed containers may rupture when heated.

Hazardous Combustion Products
None known.

Extinguishing Media
Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions
Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products. Do not allow run-off from fire fighting to enter sewers or open water ways.

**Section 6 - Accidental Release Measures**
Containment Procedures
Not applicable under normal conditions of operation.

Clean-Up Procedures
Carefully pick up devices, avoiding unnecessary impact or friction. Repack undamaged devices for storage and separate visibly damaged devices for proper disposal.
Evacuation Procedures
None necessary.

Special Procedures
Damaged actuators should be disposed of under controlled conditions by properly trained personnel. Follow all Local, State, Federal and Provincial regulations for disposal.

*** Section 7 - Handling and Storage ***

Handling Procedures
Keep container closed.

Storage Procedures
Store in a cool, dry, ventilated area. Keep protected from moisture.

Specific Use
Temperature change detection

*** Section 8 - Exposure Controls / Personal Protection ***

Substance Exposure Limits
The EU, ACGIH, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and United Kingdom have not developed exposure limits for any of the substances in this preparation.

Engineering Controls
Not ordinarily required.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face
Not ordinarily required.

Personal Protective Equipment: Skin
Gloves are not ordinarily required.

Personal Protective Equipment: Respiratory
Respiratory protection is not ordinarily required.

Personal Protective Equipment: General
Use good industrial practices in handling.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Hermetically sealed case with a solid salt system
Odor: Acrid
Physical State: Solid
pH: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Boiling Point: Not available
Melting Point: Not available
Solubility (H2O): Soluble
Specific Gravity: Not available
Auto Ignition: Not available
Flash Point Method: Not available
Flash Point: Not available
UFL: Not available
LFL: Not available

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability
Stable under ordinary conditions of use and storage. Interior salt system is a powerful reducing agent.

Chemical Stability: Conditions to Avoid
Avoid contact with incompatible materials.

Incompatibility

Hazardous Decomposition
None known.

Hazardous Polymerisation
Will not occur.
Potential Health Effects
A: General Product Information
The chemicals contained in the actuator are hermetically sealed and pose no hazard under normal conditions of operation and storage. When exposed, these chemicals are moderately to severely irritating to the eyes, skin, gastrointestinal tract, mucous membranes and respiratory tract. Harmful if swallowed. However, in normal operation, these chemicals pose minimal risk
B: Substance Analysis - LD50/LC50
No LD50/LC50's are available for the substances in this preparation.

Carcinogenicity
A: General Product Information
No information available for the product.
B: Substance Carcinogenicity
None of the substances in this preparation are listed by IARC, Austria, Belgium, Denmark, France, Germany, Ireland, Luxembourg, Netherlands, Spain, or United Kingdom.

Ecotoxicity
A: General Product Information
No information available for the product. Due to physical form of actuator, and small quantity of chemicals, environmental impact is negligible.
B: Substance Analysis - Ecotoxicity - Aquatic Toxicity
No ecotoxicity data are available for the substances in this preparation.

Mobility
Product contents are expected to have high water mobility.

Persistence & Degradation
No information available for the product.

Bioaccumulation
Product is not expected to bioaccumulate.

Other Adverse Effects
No additional information available.

Waste Disposal Instructions
Dispose of waste material according to appropriate regulations. Do not allow this material to drain into sewers/water supplies.

IATA Information
Shipping Name: Not regulated as a dangerous good.

ICAO Information
Shipping Name: Not regulated as a dangerous good.

IMDG Information
Shipping Name: Not regulated as a dangerous good.

ADR Information
Shipping Name: Not regulated as a dangerous good.

RID Information
Shipping Name: Not regulated as a dangerous good.
*** Section 15 - Regulatory Information ***

EU MARKING AND LABELLING:
Symbol(s):
   None.
Risk Phrases:
   None.
Safety Phrases:
A: General Product Information
   None.

*** Section 16 - Other Information ***

MSDS History
   MSDS History:
      New MSDS, 8/12/2004
      Revision A: 7/10/2013 renumbered, contact information updated and reviewed

Key/Legend
   CAS No: Chemical Abstract Service Registry Number
   COSHH: Control of Substances Hazardous to Health (United Kingdom)
   IARC: International Agency for Research on Cancer
   LLV: Level Limit Value (Sweden)
   MAK: Maximale Arbeitsplatz-Konzentration (Maximum Workplace Concentration) (Germany)
   MEL: Maximum Exposure Limit (COSHH)
   N/A: Not Applicable
   N/E: None Established
   OES: Occupational Exposure Standard (COSHH)
   S: Can be absorbed through the skin
   STEL: Short Term Exposure Limit (COSHH)
   STV: Short Term Value (Sweden)
   TWA: Time Weighted Average (exposure for 8-hour workday)
   IIIA1: Substances shown to induce malignant tumors in humans
   IIIA2: Substances shown to be clearly carcinogenic only in animal studies but under conditions indicative of carcinogenic potential at the workplace
   IIIB: Substances which are suspected of possessing significant carcinogenic potential which urgently needs further clarification
   DSC: Differential Scanning Calorimetry

Contact: UTC Aerospace Systems (UTAS), Materials Engineering
Contact Phone: 1-252-237-7004

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