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MATERIAL SAFETY DATA SHEET

AS645 EEV Chemically Cross Linked Polyethylene

1. GENERAL DESCRIPTION

Product Name: AS645 EEV
Chemical Family: *Chemically Cross linked Polyethylene Foam*

2. COMPOSITION / INGREDIENT DATA

| <u>Substance</u> <u>(Abbreviation)</u> | <u>Substance</u> <u>(Chemical Name)</u> | <u>Cas#</u> | <u>PHR</u> |
|---|--|-------------|------------|
| LDPE | Polyethylene | 9002-88-4 | 100 |
| DCP | Dicumylperoxide | 80-43-3 | <1 |
| ADCA | Azodicarbonamide | 123-77-3 | <20 |
| MB | Pigment | | < 1 |
| DBSPE | Ethane -1,2- bis (pentabromophenyl) | 84852-53-9 | <18 |
| Sb2 O3 | Antimony Trioxide | 1309-64-4 | <8 |

3. HAZARD IDENTIFICATION

Most important Hazards:

Contains Antimony trioxide.

ACGIH consider Antimony trioxide as A2- suspected human carcinogen.

Antimony trioxide is according to directive 67/458/EEC classified as Xn – harmful, Class 3 – carcinogen, R40 – limited evidence of carcinogenic effect.

However for encapsulated or bound preparations (eg polymers/elastomers/ extruded form) the exposure path and therefore the risk is eliminated. According to Article 10 or Annex VB9 (EU Dangerous Substance Directive, 67/548/EEC, Annex VI, 9.3) such preparations “do not

present a danger to human health by inhalation, ingestion or contact with the skin or to the aquatic environment in the form in which they are placed on the market”

4. FIRST AID MEASURES

Ingestion: If there is any suspicion that the material has been ingested, seek immediate medical attention. If only a few granules have been swallowed, rinse the mouth with cold water. In this case there is no real danger

Skin Contact: There is no risk and no need to work with gloves.

Eye Contact: Rinse eyes with water. In case of an uncomfortable sensation, consult a doctor or ophthalmologist.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: CO₂, H₂O, Foam, Dry Chemical Powder

During a fire it is advisable to cool the material with water. Material that was not ignited should, if possible, be removed from the vicinity of the fire to a safe area.

Care must be taken not to stand underneath burning material, dripping of burning molten material may occur.

Smoke may contain toxic substances; it is therefore advisable to wear a mask.

Even after the flames have been extinguished, the material should be cooled with water, in order to prevent a renewed outbreak of the fire due to self-ignition.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8

Environmental Precautions: None necessary

Methods for Cleaning Up: Can be cleaned by any acceptable method: Dust and fragments may be vacuumed, swept or blown away by use of air pressure.

7. HANDLING AND STORAGE

Handling: No Restrictions

Storage: It is advisable to store in a ventilated warehouse on pallets raised off the ground. The material should not be stored outside, particularly in the rain or in the sun. Shrink wrap is not advisable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>TLV/TWA</u> | |
|----------------------|----------------|--|-------|
| Antimony trioxide | 1309-64-4 | 0.5 (mg/m ³) | ACGIH |
| DBDPE | 84852-53-9 | TLV not determined TWA 5 (mg/m ³) | IAHA |

Engineering measures to reduce exposure:

If dust or vapor condition is above the recommended level, use local extraction apparatus (likely only in the case of a fire).

Personal Protection Equipment:

| | |
|---------------------------|---|
| Respiratory Protection: | Not necessary. |
| Hand Protection: | Not necessary. |
| Eye Protection: | Not necessary. |
| Skin and Body Protection: | There is no need for any protective measures. |
| Hygiene: | Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|-----------------------------|-----------------------------------|
| State: Foam PE | Colour: Various | Odour: None |
| Density: 25-250kg/m ³ | Melting Point: N/A | Decomposition Temp: >300°C |
| Boiling Point: N/A | Vapour Pressure: N/A | Auto Ignition Temp: N/A |
| Flashpoint: N/A | Explosion Risk: N/A | Water Solubility: None |

10. STABILITY AND REACTIVITY

| | | |
|--|---|--|
| Stability: | <input checked="" type="checkbox"/> Stable | <input type="checkbox"/> Unstable |
| Conditions to avoid: | Temperatures over 1500C | |
| Hazardous Decomposition products: | CO _x , Hydrocarbons, Trace Ammonia | |
| Hazardous Polymerization: | <input type="checkbox"/> may occur | <input checked="" type="checkbox"/> will not occur |

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 (mg/kg)

Component: Antimony 84852-53-9

Oral (rat) >3000 >2000

Skin: No toxicity

Eye: Dust may cause irritation

Ingestion: Uncomfortable if swallowed in large quantities

Inhalation: A high concentration of dust and fragments may cause nausea.

Chronic toxicity: Antimony trioxide is considered by ACGIH as AS – suspected human carcinogen. Antimony trioxide is accordingly to directive 67/458/EEC classified as Xn, Class

3, R40. The Antimony trioxide is incorporated in the material matrix thus the exposure path and therefore the risk is eliminated.

12. ECOLOGICAL INFORMATION.

Details for elimination: The waste can be buried at an appropriate site or burned in a furnace. The foam can also be grounddown for the production of recycled foams.

Performance in Ecological Sub System: PE is regarded as biologically inert.

Ecotoxicity: Antimony trioxide – N/A 84852-53-9 LC50 48H (Orange red-killifish) > 500 mg/l

13. DISPOSAL CONSIDERATIONS:

Waste from residues/unused: Dispose of in accordance with local regulations.
Contaminated Packaging: Dispose of in accordance with local regulations.

14. TRANSPORTATION INFORMATION:

| | | |
|------------------------------|-----------------------------|---------------|
| ADR/RID-HI/UN No.: | Not classified | Class: |
| Proper shipping name: | | |
| IMDG-UN No.: None | Marine Pollutant: No | Class: |
| Proper shipping name: | | |
| MFAG: | MDG Page: | EMS: |
| ICAO: | UNI/ID No.: | Class: |
| Proper shipping name: | | |

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 91/155/EEC

Symbols:

R-phrases:

S-phrases: