



## Material Safety Data Sheet

### 1. Identification of Substance/ Preparation and Company

Product Name: **PES 102 POWER METAL FLUID ACTIVATOR**  
Company: POLYMERIC ENGINEERED SOLUTIONS, 5401 HWY 21 W, BRYAN, TX 77803  
Chemical Name & Synonyms: Aliphatic polyamine hardener blend  
For Information: Call 979-779-8700 [www.pes-solutions.com](http://www.pes-solutions.com) email: [pes1@pes-solutions.com](mailto:pes1@pes-solutions.com)  
In an Emergency: As Above

### 2. Hazards Identification

Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Risk of serious damage to eyes. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment. Possible risk of impaired fertility.

#### **Signs and Symptoms of Exposure (Acute Effects)**

Contact of product with the eyes or skin quickly causes severe irritation and may cause burns narcosis and permanent injury. Inhalation of vapors may severely damage tissue and produce scarring. Vapor in low concentrations can cause lacrimation conjunctivitis and corneal edema when absorbed into the tissue of the eye. Inhalation of vapors may cause irritation in the respiratory tract coughing and chest pain may result.

### 3. Composition/ Information on Ingredients

Hazardous Components	Cas Number	Percentage	Classification
2,2 iminodiethylamine	111-40-0	10-25%	C; R34 Xn; R21/22, Xi; R43
Benzyl Alcohol	100-51-6	15-45%	Xn, R20/22
Bisphenol A	80-05-7	5-15%	Repro Cat 3 Xn; Xi, R37-41-43-62
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	10-25%	Xn; R21/22, C, R34, Xi; R43, N, R52/53
m-phenylenebis(methylamine)	1477-55-0	10-25%	C, R34, Xn, R22, Xi, R43, N, R52/53
Salicylic acid	69-72-7	1-10%	Xn, R22, Xi, R41

### 4. First Aid Measures *Summon immediate medical assistance after contact with skin, eyes, inhalation or ingestion*

**Eye:** Flush eyes with plenty of water, seek medical advice  
**Skin:** Remove product and contaminated clothing and wash area with water, seek medical advice. Except in most minor, superficial or localized burns, cover the affected area with a sterile dressing or clean sheeting. DO NOT APPLY GREASES OR OINTMENTS.  
**Ingestion:** Drink plenty of water, DO NOT INDUCE VOMITING, seek medical attention immediately  
**Inhalation:** Remove patient to fresh air. If breathing has stopped give assisted respiration. Prevent aspiration of vomit. Turn victims head to one side. Seek medical advice  
*First Aiders should protect themselves from exposure (Ref to section 8)*

### 5. Fire Fighting Measures

**Extinguishing Media:** Ignition will give rise to class B Fire, in case of fire use Water sprays, Dry chemical, CO2 or Alcohol foam  
**Exposure Hazards:** May generate toxic, irritating or flammable combustion products. Sudden reaction and fire may result if mixed with an oxidizing agent.  
**Fire Fighting Equipment:** Wear Self contained breathing apparatus, rubber boots, gloves and body suit

### 6. Accidental Release Measures

Avoid contamination of ground and surface waters. Scrape up and transfer into a suitable container. Wash area with water.  
*Refer to section 5, 8 and 13 for protective Measures and Disposal.*

### 7. Handling and Storage

Avoid contact with skin, eyes and clothing. Handle in well ventilated area. Avoid breathing vapors. Wash hands after contact. Keep container tightly closed in a cool, well ventilated area. Keep away from oxidizers, heat or flames.

### 8. Exposure Controls/ Personal Protection



## Material Safety Data Sheet

OCCUPATIONAL EXPOSURE LIMITS – 2,2iminodiethylamine WEL-LONG-TERM VALUE – 1ppm, 10mg/m<sup>3</sup>

**Respiratory:** Not required during normal use  
**Ingestion:** Not during normal use  
**Skin Protection:** Protective clothing should be worn to avoid skin contact  
**Eye Protection:** Safety Goggles

### 9. Physical/ Chemical Properties

<b>Appearance:</b>	Amber Fluid	<b>Odor:</b>	Ammoniacal, Fishy
<b>Viscosity:</b>	N/A	<b>Specific Gravity:</b>	1.0g/cm <sup>3</sup> at 68F
<b>Boiling Point/ Range:</b>	>392F	<b>Flammability:</b>	N/D
<b>Flash Point:</b>	>212F	<b>Melting Point:</b>	-0.40F
<b>Auto Flammability:</b>	N/D	<b>Explosive Properties:</b>	N/D
<b>Oxidizing Properties:</b>	N/D	<b>Vapor Pressure:</b>	N/D
<b>Evaporation Rate:</b>	N/D	<b>Solubility:</b>	Insoluble in water
<b>PH:</b>	Alkaline	<b>Partition Coefficient:</b>	N/D

### 10. Stability and Reactivity

**Stability:** Stable  
**Materials to Avoid:** Oxidizing agents – cleaning solutions. Acids - reaction accompanied by large heat release occurs when the product is mixed with acids  
**Hazardous Decomposition:** Carbon Monoxide, Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Combustion in an oxygen starved environment produces toxic products including nitriles and amides  
**Hazardous Polymerizations:** None

### 11. Toxicological Information

**Oral:** No Data  
**Inhalation:** N/A during normal use  
**Eye:** Severe irritant. May cause burns  
**Skin:** Severe Irritant. May cause burns

### 12. Ecological Information

Do not allow to enter water course. Waste from this product may present long term environmental hazards. Thus landfill sites must be considered less acceptable than incineration.

### 13. Disposal Considerations

In uncured state, dispose as chemical waste in accordance with local regulations.  
In cured state when mixed correctly with the base component, dispose as solid waste

### 14. Transport Information

**UN No:** 2735    **Class:** 8    **P.G.:** III    **Technical Name:** Amine, liquid, corrosive, N.O.S.

### 15. Regulatory Information

<b>Labeling:</b>	Corrosive (C), Harmful (Xn),	
	R Phrases (R34)	Causes Burns
	(R20/21/22)	Harmful by inhalation, in contact with skin and if swallowed
	(R41)	Risk of serious damage to eyes
	(R43)	May cause sensitization by skin contact
	(R52/53)	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
	S Phrases (S2)	Keep out of reach of children



## Material Safety Data Sheet

(S26)	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
(S36/37/39)	Wear suitable protective clothing, gloves and eye/face protection
(S45)	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**Regulations:** All components of this product are listed on the TSCA Inventory or are exempt from listing

### 16. Other Information

Risk phrases used in section 3 and not previously mentioned:

R22; Harmful if swallowed, R20/22; Harmful by inhalation and if swallowed, R37; Irritating to respiratory system,

**DATE OF PREPARATION: 13<sup>TH</sup> NOVEMBER 2009**

The information contained within this document is furnished without warranty of any kind. Users should consider this data only as a supplement of other information gathered by them and make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of employees and customers.