

## Section 1: Identification of the substance/mixture and of the company/- undertaking

### 1.1 Product identifier

Trade name: ERGOPLAST ES

Other names: Soybean oil epoxidized

CAS Number: 8013-07-8

EC Number: 232-391-0

Registry number: 01-2119471314-43-0013

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified use: plasticizer, stabilizer in PVC processing. A plasticizer for polymers.

Uses advised against: No specific data.

### 1.3. Details of the supplier of the safety data sheet

Boryszew S.A.

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### 1.4. Emergency telephone number

112 (general emergency number)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Substance is not classified as dangerous.

According to 67/548/EWG: substance is not classified as dangerous.

According to 1272/2008/EC: substance is not classified as dangerous.

Human health hazards: none.

Environmental effects: none.

Other hazard: none.

### 2.2. Label elements

According to 1272/2008/EC:

Signal words: none.

Hazard statements: none.

Precautionary statements: none.

### 2.3. Other hazards

Not fulfilling the PBT and vPvB criteria according to Annex XIII of the REACH Regulation.

## Section 3: Composition/information on ingredients

### 3.1. Substances

Substance name	CAS Number	EC Number	Hazard symbols	
			Directive No. 67/548/EEC	Regulation (EC) 1272/2008
Soybean oil epoxidized	8013-07-8	232-391-0	-	-

### 3.2. Mixtures

Not applicable.

## **Section 4: First aid measures**

### 4.1. Description of first aid measures

Ingestion: in case of swallow a big amount of product, rinse mouth with water; give plenty of water to drink. Do not induce vomiting. Immediately consult a doctor – show the container or label.

Inhalation: in case of difficulty breathing give artificial respiration. Remove to fresh air.

Skin: take of contaminated clothes, wash out skin with plenty of water with soap.

Eyes: wash out with plenty of water with the eyelid hold wide open, for at least 15 min. Remove any contact lenses. Avoid powerful water stream – risk of cornea damage.

### 4.2. Most important symptoms and effects, both acute and delayed

Can cause slightly irritation of inhalation system and moderate irritation skin and eyes.

### 4.3. Indication of any immediate medical attention and special treatment needed

Assisting medical staff show SDS, label or container.

#### *Note to physician:*

In case of ingestion or inhalation of large quantities, immediately contact a doctor specializing in the treatment of poison. Show container or label.

## **Section 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media: water mist, carbon dioxide, dry extinguishing, foam.

Unsuitable extinguishing media: not known.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale fumes and vapors. As a result of thermal decomposition or combustion may liberate carbon oxides and other toxic gases and vapors.

### 5.3. Advice for firefighters

Inform about the failure. Evacuate the danger area all persons not involved in fire fighting, if necessary, call rescue. People involved in fire fighting should be trained, equipped with protective clothing and breathing apparatus with independent air supply. Do not allow fire fighting water into surface and ground water.

## **Section 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment: apron, gloves, safety goggles.

### 6.2. Environmental precautions

Do not allow to enter the product to sewers and drainage, as well as ground water and surface water. In the case of the release of large amounts of product or environmental contamination to local authorities and chemical rescue service.

### 6.3. Methods and material for containment and cleaning up

For large spills of product embank and pump into marked containers. Small amounts take up with non-combustible absorbent material (sand, earth, silica, sawdust) into a labeled, sealed container for disposal. Residues wash with plenty of water. Damaged containers should be placed in a container for disposal.

### 6.4. Reference to other sections

Personal protective equipment – see section 8. Appropriate conduct with waste product - see section 13.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Use work methods which minimise production of vapours and mists. Keep away from sources of ignition - No smoking. Use only with adequate ventilation. Observe good industrial hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in tightly closed, properly labeled containers in a cool, ventilated area.

### 7.3. Specific end use(s)

Industrial use.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Substance doesn't have occupational exposure limit values at working place in Community. Please check any national occupational exposure limit values in your country.

### 8.2. Exposure controls

Ensure adequate ventilation on workplaces. Avoid direct contact with the released substance.

Personal protective equipment: wash hands before breaks and after work. Keep away from food, beverages and animal feed. Contaminated clothing take off immediately. When using do not eat, drink or smoke.

Hand protection: protective gloves, PVC gloves are recommended.

Skin protection: protective apron.

Eye protection: use safety goggles.

Respiratory protection: there are no special requirements for the applications under normal conditions. In the case of vapour formation use a respirator with an approved filter.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

physical state:	oily liquid, color: colorless to yellow
odour threshold:	not available
pH:	not determined
melting point/freezing point:	not available
initial boiling point and boiling range:	> 200°C
flash point:	230°C
evaporation rate:	not determined
flammability (solid, gas):	not applicable – substance is liquid
upper/lower flammability or explosive limits:	not determined
vapour pressure (100°C):	not available
vapour density:	not available
density (25°C):	maximum 0,998 g/cm <sup>3</sup>
solubility(ies):	soluble in water < 0,1 g/l (20°C)
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	not determined
decomposition temperature:	not determined
explosive properties:	not display
oxidising properties:	not determined
viscosity (20°C):	not determined

### 9.2. Other information

volatility (6h/100°C):	max 0,3
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## Section 10: Stability and reactivity

### 10.1. Reactivity

No data are available.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not known.

### 10.4. Conditions to avoid

Contact with heat sources, ignition sources.

### 10.5. Incompatible materials

Oxidizers, strong acids.

### 10.6. Hazardous decomposition products

Oxides of carbon.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

*Information for mixture:*

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

LD<sub>50</sub> (oral, rat) 21 000 – 40 000 mg/kg

LD<sub>50</sub> (skin, rabbit) 20 000 mg/kg

#### **Irritation**

Based on available data, the classification criteria are not met.

#### **Corrosivity**

Based on available data, the classification criteria are not met.

#### **Sensitization**

Based on available data, the classification criteria are not met.

#### **Repeated dose toxicity**

Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### **Mutagenicity**

Based on available data, the classification criteria are not met.

#### **Toxicity for reproduction**

Based on available data, the classification criteria are not met.

#### *Other information*

Inhalation: vapors may irritate mucous membranes of nose and throat.

Skin: may cause redness and mild irritation without sensitization.

Eyes: may cause mild irritation.

Oral: ingestion can cause complaints of gastrointestinal.

## Section 12: Ecological information

### 12.1. Toxicity

*Information for mixture:*

Product is not classified as dangerous for environment.

fish LC<sub>50</sub> (*Leciscus idus*) 900 mg/l/48h (DIN 38412-L15)

interverbes EC<sub>50</sub> (*Artemia salina*) 240 mg/l/24h

EC<sub>50</sub> (*Daphnia magna*) 100 mg/l/24h

bacteria EC<sub>0</sub> (*Pseudomonas putida*) > 10 000 mg/l/30min (DIN 38412 Teil 27)

#### 12.2. Persistence and degradability

78% (28d) ac. OECD 301D

79% (28d) ac. OECD 301B

Product is easily biodegradable. There is no risk to aquatic organisms.

#### 12.3. Bioaccumulative potential

Not known.

#### 12.4. Mobility in soil

Not known.

#### 12.5. Results of PBT and vPvB assessment

Not applicable.

#### 12.6. Other adverse effects

Not known.

### **Section 13: Disposal considerations**

#### 13.1. Waste treatment methods

Do not empty into drains. Do not allow contamination of surface water and groundwater. Collect waste material to land-use (recycling) or incinerate in appropriate plants. Waste packages give companies involved in recycling of packaging waste.

Waste classification is dependent on the production site. If the product has been used in any further operations / processes, the end user should define the resulting waste and assign the appropriate code.

### **Section 14: Transport information**

#### 14.1. UN number

None. Product is not classified as dangerous for environment during transport.

#### 14.2. UN proper shipping name

None.

#### 14.3. Transport hazard class(es)

None.

#### 14.4. Packing group

None.

#### 14.5. Environmental hazards

None.

#### 14.6. Special precautions for user

None.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

None.

### **Section 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Regulation (EC) No 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC)

No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

**Regulation (EC) No 1272/2008** of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).

**Commission Directive 2000/39/EC** of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/247/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (Text with EEA relevance).

**Council Directive 67/548/EEC** of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

**Directive 1999/45/EC** of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations.

#### 15.2. Chemical safety assessment

There is no data concerning chemical safety assessment performed for substance.

#### **Section 16: Other information**

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.