



**MatterHackers**

**SAFETY DATA SHEET - PRO Series ASA**

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Trade name/designation : ASA LI912

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

**1.2.1. Relevant identified uses**

- Manufacture of plastics products

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

MatterHackers, Inc.

20321 Valencia Circle

Lake Forest, CA 92630

Email: [Support@matterhackers.com](mailto:Support@matterhackers.com)

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**SECTION 2: HAZARD IDENTIFICATION**

**2.1. Classification of the substance/mixture**

**2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]**

- Not applicable

**2.2. Label elements**

**2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]**

**\* Hazard Pictogram(s)**

- Not applicable

**\* Signal word : Not applicable**

**\* Hazard statement(s)**

- Not applicable

**\* Precautionary statement(s)**

**1) Prevention**

- Not applicable

**2) Response**

- Not applicable

**3) Storage**

- Not applicable

**4) Disposal**

- Not applicable

**2.3. Other hazards**

- Not available

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

- Not applicable

**3.2. Mixtures**

Name	CAS No.	REACH Registration No.	% [Weight]	Classification [1272/2008/EC]
2-Propenoic acid butyl ester polymer with ethenylbenzene and 2- propenenitrile	26299-47-8	-	90 ~ 99.9	Not classified
3,5-Bis(1,1-dimethylethyl)-4- hydroxybenzene- propanoic acid octadecyl ester	2082-79-3	-	< 1	Not classified
Decanedioic acid bis(2,2,6,6- tetramethyl-4-piperidiny) ester	52829-07-9	-	< 1	Not classified

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**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

**General**

- No general information.

**Inhalation**

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

**Skin contact**

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.

**Eye contact**

- Do not rub your eyes.

- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

### **Ingestion**

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

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

- Not available

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

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

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## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray

Unsuitable extinguishing media

- Avoid use of water jet for extinguishing

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

Hazardous combustion products

- Not available

### **5.3. Advice for firefighters**

- Keep unauthorized personnel out.
- Notify your local firestation and inform the location of the fire and characteristics hazard.
- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.
- Avoid inhalation of materials or combustion by-products.
- Do not approach the tank surrounded by fire until it is extinguished.
- Keep containers cool with water spray.
- Use fire fighting procedures suitable for surrounding area.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal Precautions, protective equipment and emergency procedures**

#### **6.1.1. For non-emergency personnel**

- Protective equipment: Wear proper protective equipment.
- Emergency procedures: Not applicable
- If required, notify relevant authorities according to all applicable regulations.

#### **6.1.2. For emergency responders**

- Wear proper personal protective apparatus as indicated in Section 8 and avoid skin contact and inhalation.
- Ventilate closed spaces before entering.

- Do not touch spilled material. Stop leak if you can do it without risk.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment

## **6.2. Environmental precautions**

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.
- Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

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

### **6.3.1. For containment**

- Clean up all spills immediately.
- Control personal contact by using protective equipment.
- Clear area of personnel and move up wind.
- Prevent, by any means available, spillage from entering drains or water course.

### **6.3.2. For cleaning up**

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notify the central and local government if the emission reach the standard threshold.
- Disposal of waste shall be in compliance with the Wastes Control?Act
- Appropriate container for disposal of spilled material collected.
- Small liquid state spills: Appropriate container for disposal of spilled material collected.
- Put the spilled material in an appropriate containers and clean the contaminated area

### **6.3.3. Other information**

- Slippery when spilt.

## **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 information on disposal.

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## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

- Wash thoroughly after handling.
- Avoid direct physical contact.
- Avoid contact with incompatible materials.

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

- Save in cool, dry and well ventilated place.
- Check regularly for leaks.
- Please pay attention to incompatibilities materials and conditions to avoid.

- Keep sealed when not in use.
- No open fire.

### **7.3. Specific end use(s)**

- See Section 1 for information on 1.2 Relevant identified uses.

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

#### **8.1.1. Occupational exposure limits**

##### **European Union (EU) Commission Directive 2006/15/EC (IOELVs)**

- Not available

##### **European Union (EU) Commission Directive 2006/15/EC (IOELVs) - Skin**

- Not available

#### **8.1.2. Recommended Monitoring Procedures**

- Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### **8.1.3. DNEL/PNEC - Values**

- Not available

### **8.2. Exposure controls**

#### **8.2.1. Appropriate engineering controls**

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

#### **8.2.2. Individual protection measures, such as personal protective equipment**

##### **Hand protection**

- Wear appropriate glove.

##### **Eye protection**

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

##### **Respiratory Protection**

- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Dust, mist, fume-purifying respiratory protection
- Air-purifying respirator with high-efficiency particulate filtering
- Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
- Self-contained breathing apparatus with a corpuscle filter of high efficiency

- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Skin protection

- Wear appropriate clothing.

**Others**

- It is necessary to wear protective clothes and other protection equipment. Cover your face, head and neck.

- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.

- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.

Thermal hazards

- Not available

**8.2.3 Environmental exposure controls**

- Do not let product enter drains. For ecological information refer to section 12.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

<b>Appearance(State)</b>	<b>Solid(Pellets)</b>
<b>Appearance(Color)</b>	<b>Not available</b>
<b>Odor</b>	<b>Not available</b>
<b>Odor threshold</b>	<b>Not available</b>
<b>pH</b>	<b>Not available</b>
<b>Melting point/Freezing point</b>	<b>Not available</b>
<b>Initial boiling point and boiling range</b>	<b>Not available</b>
<b>Flash point</b>	<b>Not available</b>
<b>Evaporation rate</b>	<b>Not available</b>
<b>Flammability(solid, gas)</b>	<b>Not available</b>
<b>Upper/Lower Flammability or explosive limits</b>	<b>Not available</b>
<b>Vapour pressure</b>	<b>Not available</b>

<b>Vapour density</b>	<b>Not available</b>
<b>Relative density</b>	<b>1.07</b>
<b>Solubility</b>	<b>Not available</b>
<b>Partition coefficient of n-octanol/water</b>	<b>Not available</b>
<b>Autoignition temperature</b>	<b>Not available</b>
<b>Decomposition temperature</b>	<b>Not available</b>
<b>Viscosity</b>	<b>Not available</b>
<b>Explosive properties</b>	<b>Not available</b>
<b>Oxidising properties</b>	<b>Not available</b>

## 9.2. Other information

- Not available

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

- Not available

### 10.2. Chemical Stability

- This material is stable under recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

### 10.4. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

### 10.5. Incompatible materials

- Not available

### 10.6. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Acute toxicity

#### - Oral

- Product (ATEmix) : Not available
- [3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester] : LD50 > 2000 mg/kg Rat ( OECD TG423, NIER(2001-2004))

#### - Dermal

- Product (ATEmix) : Not available
- [3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester] : LD50 > 2000 mg/kg Rat (OECD SIDS, EU IUCLID)

**- Inhalation**

- Product (ATEmix) : Not available
- [3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester] : dust LC50 > 1.8 mg/l Rat(OECD SIDS, EU IUCLID)

**11.2. Skin corrosion/irritation**

- Not available

**11.3. Serious eye damage/irritation**

- Not available

**11.4. Respiratory sensitization**

- Not available

**11.5. Skin sensitization**

- Not available

**11.6. Germ cell mutagenicity**

- Not available

**11.7. Carcinogenicity**

**- IARC**

- Not available

**- OSHA**

- Not available

**- ACGIH**

- Not available

**- NTP**

- Not available

**- EU CLP**

- Not available

**11.8. Reproductive toxicity**

- Not available

**11.9. Specific target organ toxicity(single exposure):**

- Not available

**11.10. Specific target organ toxicity(repeated exposure):**

- Not available

**11.11. Aspiration hazard**

- Not available

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**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.1. Fish**



- [3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester] :  
LC50 19.2 mg/l 96 hr Oryzias latipes (MOE existing chemicals safety  
test(2001-2004))

#### **12.1.2. Invertebrate**

- [3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester] :  
EC50 13.9 mg/l Daphnia magna (ECOTOX, MOE existing  
chemicals safety test(2001-2004))

#### **12.1.3. Algae**

- [3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester] :  
ErC50 30 mg/l 72 hr Scenedesmus subspicatus (Directivw  
87/302/EEC, GLP . IUCLID)

### **12.2. Persistence and degradability**

#### **12.2.1. Persistence**

- [3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester] :  
log Kow 13.41 (Estimate)

#### **12.2.2. Degradability**

- Not available

### **12.3. Bioaccumulative potential**

#### **12.3.1. Bioaccumulation**

- [3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester] :  
BCF ≤ 12 (Carp(Cyprinus carpio) 6 weeks 0.05mg/L)(CERI)

### **12.4. Mobility in soil**

- Not available

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

- Not available

### **12.6. Other adverse effects**

- Not available

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

- Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them
  - Oil water separation technology shall be applied as pre-waste treatment if it is applicable - It shall be treated by incineration
  - Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act
  - Dispose of waste in accordance with all applicable laws and regulations.
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## **SECTION 14: TRANSPORT INFORMATION**

### **14.1. UN No.**

#### **14.1.1. UN No. (ADR/RID/ADN)**

- Not applicable

#### **14.1.2. UN No. (IMDG)**

- Not applicable

#### **14.1.3. UN No. (ICAO)**

- Not applicable

### **14.2. UN proper shipping name**

- Not applicable

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

#### **14.3.1. ADR/RID/ADN Class**

- Not applicable

#### **14.3.2. ADR/RID/ADN Class**

- Not available

#### **14.3.3. ADR Label No.**

- Not applicable

#### **14.3.4. IMDG Class**

- Not applicable

#### **14.3.5. ICAO Class/Division**

- Not applicable

### **14.4. Packing group**

#### **14.4.1. ADR/RID/ADN Packing group**

- Not applicable

#### **14.4.2. IMDG Packing group**

- Not applicable

#### **14.4.3. ICAO Packing group**

- Not available

### **14.5. Environmental hazards**

- Not available

- Not applicable

### **14.6. Special precautions for user**

- Local transport follows in accordance with Dangerous goods Safety Management Law.

- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

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

- Not applicable

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## **SECTION 15: REGULATORY INFORMATION**

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

#### **15.1.1. Europe regulatory**

##### **15.1.1.1 REACH Restricted substance under REACH**

- Not applicable

##### **15.1.1.2 REACH Substances subject to authorization under REACH**

- Not applicable

##### **15.1.1.3 REACH SVHC**

- Not applicable

##### **15.1.1.4 Europe PBT**

- Applicable (3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzene- propanoic acid octadecyl ester)

##### **15.1.1.5 European Union (EU) Transport of Dangerous Goods by Road - Dangerous Goods List**

- Not applicable

### **15.2. Chemical Safety Assessment**

- Not conducted

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## **SECTION 16: OTHER INFORMATION**

### **16.1. Indication of changes**

- The Safety Data Sheet has been reviewed and the data therein were revised and laid out according the requirements of the Commission Regulation (EC) No. 1907/2006

### **16.2. Abbreviations and acronyms**

- 1272/2008 CLP : Classification, Labelling and Packaging regulation.
- REACH : Registration, Evaluation and authorisation of chemical substances.
- DNEL : Derive no effects level
- PNEC : Predicted no effect concentration

### **16.3. Key literature references and sources for data**

- This Safety Data Sheet was compiled with data and information from the following sources: RTECS, ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB

### **16.4. Classification procedure**

- The mixture classification has been derived based on the classification of the individual components in accordance with the rules set out in Regulation (EC) No 1272/2008 (CLP) as well as the translation tables in Annex VII to the same regulation.

### **16.5. Training advice**

- Not applicable

### **16.6. Further information**

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. - This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. - It should not therefore be construed as guaranteeing any specific property of the product

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