

**Safety Data Sheet**

**227 Auto Marine**

**SECTION 1: Identification**

**Product identifier**

Product name 227 Auto Marine

Product number 5209

**Supplier's details**

Name Ardex Labs.  
Address 2050 Byberry Rd  
Philadelphia, PA 19116  
United States of America

Telephone 2156980500  
email info@ardexlabs.com

**Emergency phone number(s)**

800-424-9300  
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE  
NUMBER

**SECTION 2: Hazard identification**

**Classification of the substance or mixture**

- Eye damage/irritation (chapter 3.3), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1B

**GHS label elements, including precautionary statements**

**Pictogram**



**Signal word**

**Danger**

**Hazard statement(s)**

H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage

**Precautionary statement(s)**

**Prevention**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands and exposed skin thoroughly after handling.

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P280

Wear protective gloves/protective clothing/eye protection/face protection.

### Response

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor

P363

Wash contaminated clothing before reuse.

### Storage

P405

Store locked up.

### Disposal

P501

Dispose of contents/container to local, state, and federal regulations

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Hazardous components

Component	Concentration
<b>SODIUM HYDROXIDE/ WATER 50/50 SOLUTION (CAS no.: 1310-73-2; EC no.: 215-185-5; Index no.: 011-002-00-6)</b>	<b>5 % (Weight)</b>
CLASSIFICATIONS: Eye damage/irritation (chapter 3.3), Cat. 1; Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 3; Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 3; Skin corrosion/irritation (chapter 3.2), Cat. 1A. HAZARDS: No data available.	
<b>Sodium metasilicate pentahydrate (CAS no.: 6834-92-0; EC no.: 229-912-9; Index no.: 014-010-00-8)</b>	<b>5 % (Weight)</b>
CLASSIFICATIONS: Skin corrosion/irritation (chapter 3.2), Cat. 1B; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3; Corrosive to metals (chapter 2.16), Cat. 1. HAZARDS: H314 - Causes severe skin burns and eye damage; H335 - May cause respiratory irritation.	
<b>POTASSIUM HYDROXIDE liquid (CAS no.: 1310-58-3; EC no.: 215-181-3; Index no.: 019-002-00-8)</b>	<b>5 % (Weight)</b>
CLASSIFICATIONS: Acute toxicity (chapter 3.1), Cat. 4; Skin corrosion/irritation (chapter 3.2), Cat. 1A. HAZARDS: H302 - Harmful if swallowed; H314 - Causes severe skin burns and eye damage.	
<b>Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy- (CAS no.: 34398-01-1)</b>	<b>5 % (Weight)</b>
CLASSIFICATIONS: Acute toxicity, oral (chapter 3.1), Cat. 4; Eye damage/irritation (chapter 3.3), Cat. 1. HAZARDS: No data available.	
<b>Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides (CAS no.: 61791-10-4)</b>	<b>5 % (Weight)</b>
CLASSIFICATIONS: Eye damage/irritation (chapter 3.3), Cat. 1; Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2. HAZARDS: H318 - Causes serious eye damage; H411 - Toxic to aquatic life with long lasting effects.	

#### Trade secret statement (OSHA 1910.1200(i))

The exact concentration and name of some ingredients have been withheld in accordance with OSHA Hazcom 1910.1200(i) standards.

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

If inhaled

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce

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vomiting unless directed to do so by medical personnel.  
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

In case of skin contact	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
In case of eye contact	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. If vomiting occurs, keep head low so that stomach content does not enter lungs.
Personal protective equipment for first-aid responders	See section 8 for PPE recommendations

### **Most important symptoms/effects, acute and delayed**

General: Symptoms of chemical burns may be delayed. Keep victim under observation  
Inhalation: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system  
Skin Contact: Causes severe burns.  
Eye Contact: Causes serious eye damage  
Ingestion: Toxic if swallowed. May cause burns to mouth, throat, and stomach.  
Chronic Symptoms: None expected under normal conditions of use.

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## **SECTION 5: Fire-fighting measures**

### **Suitable extinguishing media**

Suitable Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.  
Unsuitable Extinguishing Media: None known

### **Specific hazards arising from the chemical**

Fire Hazard: Not considered flammable but may burn at high temperatures.  
Explosion Hazard: Product is not explosive.

### **Special protective actions for fire-fighters**

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

### **Further information**

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.  
Hazardous Combustion Products: Carbon dioxide, carbon monoxide, sulfur oxides, phosphorous oxides,

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halogenated compounds

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### SECTION 6: Accidental release measures

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

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

#### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### Methods and materials for containment and cleaning up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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### SECTION 7: Handling and storage

#### Precautions for safe handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

#### Specific end use(s)

Vehicle cleaning product

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### SECTION 8: Exposure controls/personal protection

#### Control parameters

##### CAS: 1310-73-2 (EC: 215-185-5)

SODIUM HYDROXIDE/ WATER 50/50 SOLUTION

ACGIH: 2mg/m<sup>3</sup> Ceiling; NIOSH: 2mg/m<sup>3</sup> Ceiling; OSHA: 2 mg/3 PEL-TWA

##### CAS: 61791-10-4

Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides  
TWA

##### CAS: 74-87-3

methyl chloride

ACGIH: 100ppm STEL; 50ppm TWA; OSHA: 200ppm STEL; 100ppm twa

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### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

### Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Eye/face protection

Eye Protection: Chemical goggles or safety glasses.

#### Skin protection

Skin and Body Protection: Wear suitable protective clothing.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

#### Thermal hazards

No data available.

#### Environmental exposure controls

Do not allow the product to be released into the environment.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Clear , free-flowing lavender color with a characteristic error
Odor	Hydrocarbon-Fruity odor
Odor threshold	No data available.
pH	13
Melting point/freezing point	20 °F (-9 °C)
Initial boiling point and boiling range	221-231°F (105-112 °C)
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Vapor pressure	16.2 (@20 DEG. C.)
Vapor density	No data available.
Relative density	1-1.2 (@20 DEG. C)
Solubility(ies)	Miscible
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

## **SECTION 10: Stability and reactivity**

### **Reactivity**

Hazardous reactions will not occur under normal conditions.

### **Chemical stability**

Stable under recommended handling and storage conditions (see section 7).

### **Possibility of hazardous reactions**

Hazardous polymerization will not occur.

### **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

### **Incompatible materials**

Strong acids. Strong bases. Strong oxidizers.

### **Hazardous decomposition products**

Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides

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## **SECTION 11: Toxicological information**

### **Information on toxicological effects**

#### **Acute toxicity**

Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides

LD50 Skin

Remarks: FHSA Skin irritation index = 4.0

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-

LC50 Oral - Rat - 1000-2000 mg/kg

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-

LC50 Skin - Rabbit - >2000 mg/kg

Sodium metasilicate pentahydrate

LD50 Oral - Rat - 1152-1349 mg/kg bw

Result: Will cause chemical burns due to high alkalinity.

Sodium metasilicate pentahydrate

LC50 Inhalation - Rat - >2.06 g/m<sup>3</sup>

Result: Dust is severely irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity.

Sodium metasilicate pentahydrate

LD50 Inhalation - Rat - >5000 mg/kg bw

Result: Material will cause chemical burns

#### **Skin corrosion/irritation**

Sodium metasilicate pentahydrate

Result: Material is corrosive to eyes and skin

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### **Serious eye damage/irritation**

Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides

Remarks: This product has not been tested. The information is derived from products of a similar composition.

### **Respiratory or skin sensitization**

No data available.

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

No data available.

### **Reproductive toxicity**

No data available.

### **Summary of evaluation of the CMR properties**

No data available.

### **STOT-single exposure**

No data available.

### **STOT-repeated exposure**

No data available.

### **Aspiration hazard**

No data available.

### **Additional information**

No data available.

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## **SECTION 12: Ecological information**

### **Toxicity**

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-  
LC50 - Pimephales promelas (fathead minnow) - 1-10ml/l - 96hr

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-  
LC50 - Daphnia magna (water flea) - 1-10ml/l - 96hr

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-  
LC50 - Algea - 1-10ml/l - 96hr

SODIUM HYDROXIDE/ WATER 50/50 SOLUTION  
EC50 - Daphnia magna (water flea) - 34.59-47.13 mg/l - 48h

SODIUM HYDROXIDE/ WATER 50/50 SOLUTION  
LC50 - Western mosquitofish (Gambusia affinis) - 125mg/l - 96h

Sodium metasilicate pentahydrate  
LC50 - Brachydanio rerio - 210 mg/l - 96h

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Sodium metasilicate pentahydrate  
EC50 - Daphnia magna (water flea) - 1700mg/l - 48h

#### **Persistence and degradability**

Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides

Result: Not readily biodegradable

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-

Result: Readily biodegradable, as defined by OECD, substance that degrades > 60-70% within a 10 day window over 28 days.

Sodium metasilicate pentahydrate

Result: Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica

#### **Bioaccumulative potential**

Sodium metasilicate pentahydrate

Result: Inorganic. The substance has no potential for bioaccumulation.

#### **Mobility in soil**

No data available.

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

No data available.

#### **Other adverse effects**

No data available.

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## SECTION 13: Disposal considerations

#### **Disposal of the product**

Sewage Disposal Recommendations: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

#### **Disposal of contaminated packaging**

Do not reuse containers.

#### **Waste treatment**

Dispose of only in accordance with local, state, and federal regulations.

#### **Sewage disposal**

Do not allow product to enter sewers, waterways, or soil.

#### **Other disposal recommendations**

No data available.

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## SECTION 14: Transport information

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### DOT (US)

UN Number: 1760

Class: 8

Packing Group: PGII

Proper Shipping Name: Compounds, cleaning liquid (Containing Sodium Metasilicate),

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

### IMDG

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

### IATA

UN Number:

Class:

Packing Group:

Proper Shipping Name:

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Massachusetts Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

Chemical name: Potassium hydroxide

CAS number: 1310-58-3

#### New Jersey Right To Know Components

Common name: SODIUM HYDROXIDE

CAS number: 1310-73-2

Common name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

#### Pennsylvania Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

Formaldehyde (CAS: 50-00-0)

Chemical name: Potassium hydroxide

CAS number: 1310-58-3

#### Toxic Substances Control Act (TSCA) Inventory

Chemical name: Sodium hydroxide

CAS number: 1310-73-2 (not regulated)

Sodium metasilicate pentahydrate

CAS: 6834-92-0: Listed

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yes

### OSHA Hazardous Chemical

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

### Super Fund (1986 SARA)

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

Immediate Hazard

### Rhode Island Right to Know

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

### SARA 311/312 Hazards

Acute Health Hazard

Chronic Health Hazard

### DfE Surfactant

Poly( oxy-1,2-ethanediyl), a-undecyl-w-hydroxy- 34398-01-1 meets the criteria of the US EPA Design for Environment (DfE) Surfactant screen and is listed on CleanGredients.

### SARA 313 Components

0.03% methyl chloride

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## SECTION 16: Other information

Revision Date:

04/18/2016

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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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.

North America GHS US 2012