



ARDEX LABS.

Safety Data Sheet First Arch

SECTION 1: Identification

Product identifier

Product name First Arch
Product number 5270

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

GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Eye damage/irritation (chapter 3.3), Cat. 1
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage

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H318 Causes serious eye damage
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

Precautionary statement(s)

Preventative

P260 Do not breathe fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands and exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell,
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
P330 Rinse mouth.
P363 Wash contaminated clothing before reuse.

Storage

P403+P233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of contents/container to in accordance with local, state, and federal regulations

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate (CAS no.: 10378-23-1; EC no.: 200-573-9; Index no.: 607-428-00-2)	< 3 % (Volume)
CLASSIFICATIONS: Acute toxicity, oral (chapter 3.1), Cat. 4; Eye damage/irritation (chapter 3.3), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage.	
Sodium metasilicate (CAS no.: 6834-92-0; EC no.: 229-912-9; Index no.: 014-010-00-8)	< 5 % (Volume)
CLASSIFICATIONS: Skin corrosion/irritation (chapter 3.2), Cat. 1B; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3. HAZARDS: H314 - Causes severe skin burns and eye damage; H335 - May cause respiratory irritation.	
Sodium phosphate, tribasic (CAS no.: 7758-29-4)	< 5 % (Volume)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

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).

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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 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.

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

Indication of immediate medical attention and special treatment needed, if necessary

No data available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Specific hazards arising from the chemical

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Special protective actions for fire-fighters

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

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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 oxides (CO, CO₂).

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, halogenated compounds

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).

6.1.1. For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency 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

Environmental precautions

May be harmful to the environment if released in large quantities. Avoid dispersal of spilled concentrate material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material in concentrate

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.

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: None classified.

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Specific end use(s)

Pre-soak in automated car wash tunnels.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

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

Wear suitable chemical safety goggles or glasses.

Skin protection

Wear suitable chemically resistant gloves.

Body protection

Wear suitable clothing.

Respiratory protection

No data available.

Thermal hazards

No data available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	CLEAR, FREE-FLOWING LIQUID. Reddish/yellow/gold
Odor	Characteristic cherry-fresh
Odor threshold	No data available.
pH	12.6
Melting point/freezing point	-10 DEG. C (18 DEG. F)
Initial boiling point and boiling range	105-112 C (221-231 F)
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	7.8 (@ 20 DEG. C.)
Vapor density	
Relative density	1-1.21 (@20DEG. C)
Solubility(ies)	Miscible

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Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties

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

Avoid strong oxidizers and strong acids and highly electrovalent metals (e.g. Al, Mg, Fe, etc.)

Hazardous decomposition products

Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides. Toxic gases (such as Formic Acid and Carbon Monoxide)

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate
LD50 Oral - Rat - 603-1260 mg/kg

Sodium phosphate, tribasic
LD50 Oral - Rat - >2000 mg/kg - OECD guideline

Sodium phosphate, tribasic
LD50 Inhalation - Rat - >0.39 - 4h

Sodium phosphate, tribasic
LD50 Skin - Rabbit - 4640 mg/kg

Sodium metasilicate
LD50 Oral - Rat - 1152-1349 mg/kg
Result: Remarks: Gastrointestinal:Ulceration or bleeding from stomach.

Skin corrosion/irritation

Sodium metasilicate
OECD Dermal - Rabbit - 4h
Result: Corrosive

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Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

Sodium metasilicate

OECD Inhalation - Mouse - in vivo assay

Result: Does not cause skin sensitization

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.

SECTION 12: Ecological information

Toxicity

Sodium phosphate, tribasic

EC50 - Daphnia magna (water flea) - >100 mg/l - 48h

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

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

Disposal of contaminated packaging

Do not reuse packaging. Dispose of packaging material in accordance with all local, regional, national, provincial, territorial and international regulations.

Waste treatment

No data available.

Sewage disposal

Do not allow product to enter drains or sewers

Other disposal recommendations

No data available.

SECTION 14: Transport information

DOT (US)

UN Number: NA1760

Class: 8

Packing Group: PGII

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

IMDG

No data available.

IATA

No data available.

SECTION 15: Regulatory information

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

Pennsylvania Right To Know Components

Ethylenediaminetetraacetic acid tetrasodium salt dihydrate

Chemical name: Triphosphoric acid, pentasodium salt

CAS number: 7758-29-4

Disodium metasilicate (CAS: 6834-92-0)

New Jersey Right To Know Components

Ethylenediaminetetraacetic acid tetrasodium salt dihydrate

Disodium metasilicate (CAS: 6834-92-0)

Massachusetts Right To Know Components

Chemical name: Sodium phosphate, tribasic

CAS number: 7758-29-4

SARA 313 Components

Acute health hazard

SECTION 16: Other information

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Revision Date:
03/18/2016

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.

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