GHS Labelling of Water Treatment Chemicals

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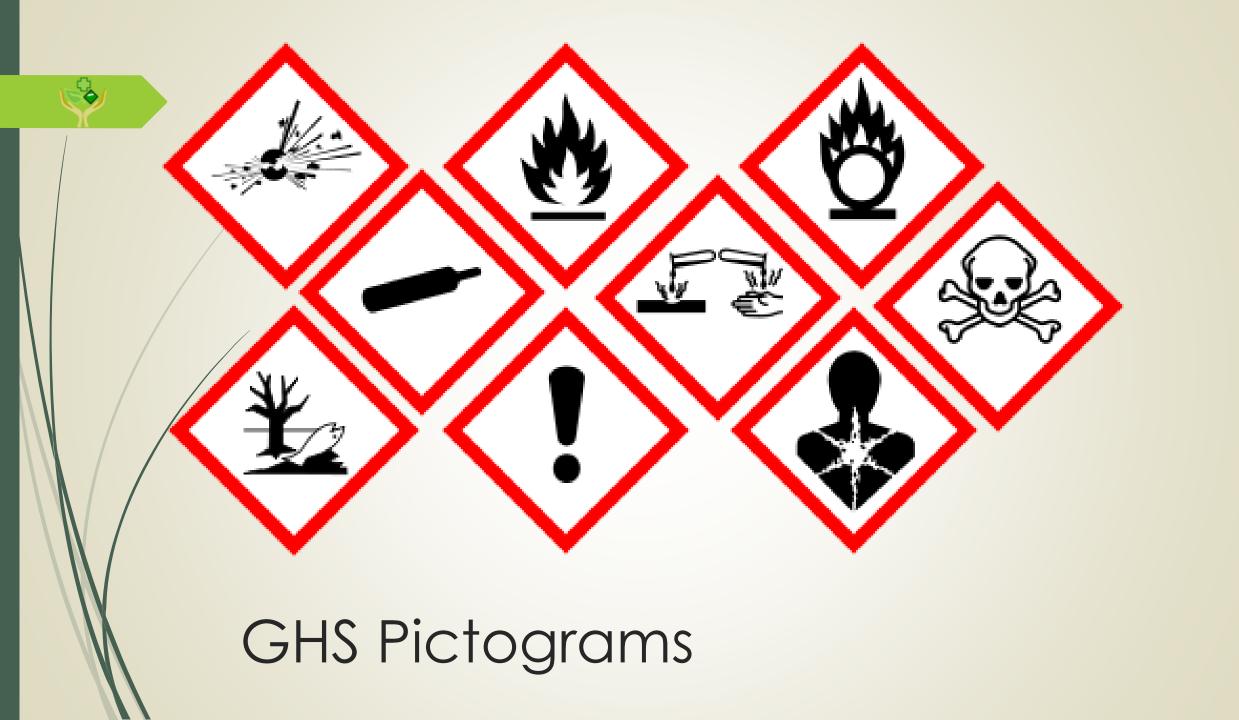
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March 2018



What we'll look at

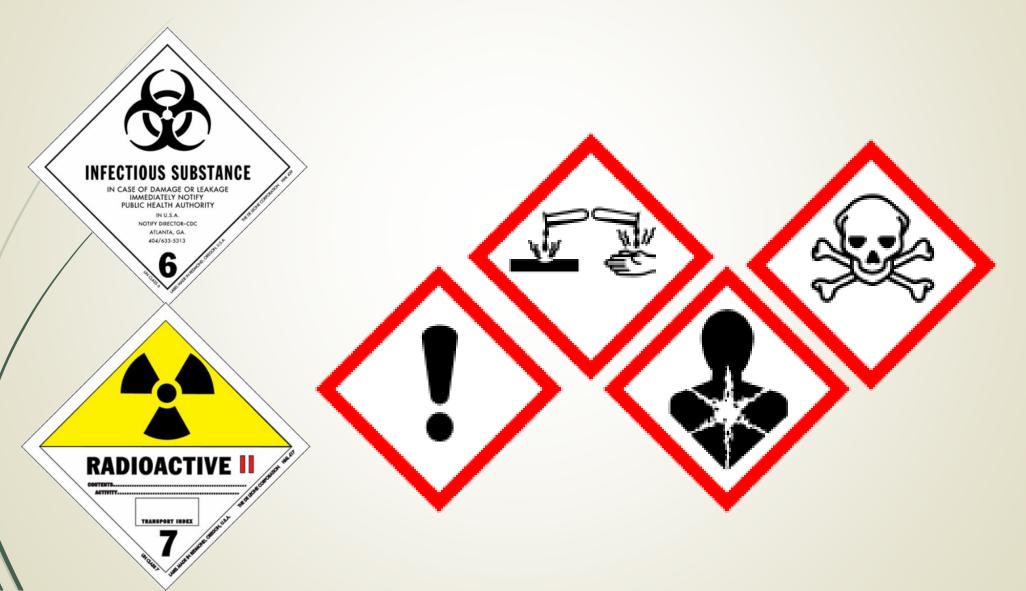
- What GHS labels mean
- Secondary labels







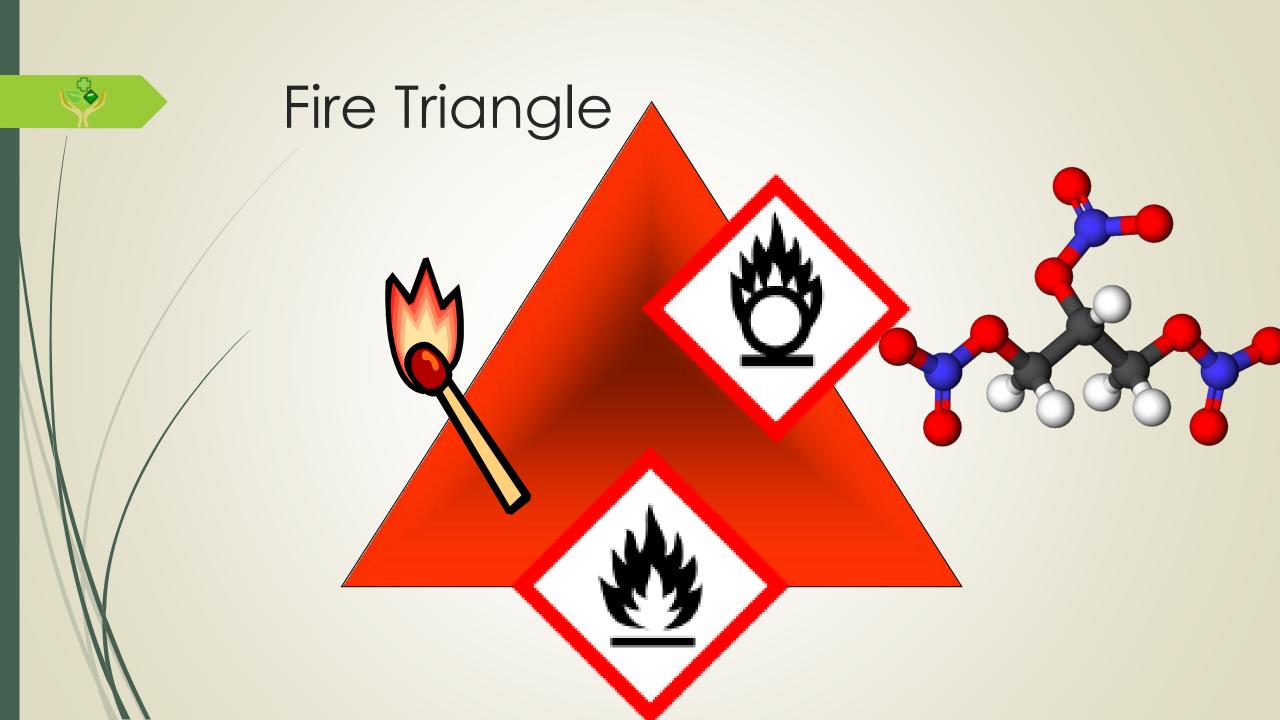
Health Hazards





Environmental Hazards













Dose

- The amount that gets inside you.
- All things are poison; the dose makes the poison.



Alle Ding' sind Gift, und nichts ohn' Gift; allein die Dosis macht, daß ein Ding kein Gift ist. Paracelsus (1493-1541)



Public Health Advances

- **1800s**
- Safe drinking water

- **1900s**
- Fluoridated drinking water

- **2000s**
- Reducing lead and copper



Label elements



Signal word

Danger

Hazard statement

May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage. Causes damage to organs (Respiratory System). Causes damage to organs (Respiratory System, Central Nervous System) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary statement Prevention

Keep away from heat. Keep/Store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response

In case of fire: Use water for extinction. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If exposed: Call a poison center/doctor. Collect spillage.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

CAIROX® potassium permanganate

907273 Version #: 02 Revision date: 23-April-2014 Issue date: 27-November-2013

Potassium permanganate



Danger

May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage. Causes damage to organs (Respiratory System). Causes damage to organs (Respiratory System, Central Nervous System) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.







SAFETY DATA SHEET



OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev 3.

SECTION 1: Identification

Product identifier: SmartPhos® 20A

SAL Product Number: 6580-20A

CAS number:

SECTION 2: Hazard(s) Identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Corr. 1A H314
Eye Dam. 1 H318
STOT SE 3 H335
Aquatic Acute 2 H401

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Danger

H335 - May cause respiratory irritation

H401 - Toxic to aquatic life

GHS-US)



: Danger

Orthophosphate

HS-US)

: H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H401 - Toxic to aquatic life



SDS No: 068-GHS



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: Fluorosilicic Acid

Synonyms: Hydrofluorosilicic Acid, Hexafluorosilicic Acid, Hydrosilicofluoric Acid

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Various commercial and industrial uses

Manufacturer:

UNIMIN CORPORATION

258 Elm Street

New Canaan, CT 06840

Emergency Telephone Number

(203) 966-8880

Telephone Number for Information

(203) 966-8880

SDS Date of Preparation/Revision: April 2014

SECTION 2: HAZARDS IDENTIFICATION

GHS/ Hazcom 2012 Classification:

Physical:	Health:	Environmental	
Not Hazardous	Acute Toxicity Category 3 (Dermal) Acute Toxicity Category 4 (Oral, Inhalation) Skin Corrosion Category 1	Not Hazardous	

GHS/Hazcom 2012 Label:





DANGER!

Statements of Hazard

Harmful if swallowed. Toxic in contact with skin. Harmful if inhaled

Causes severe skin burns and eye damage.

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Immediately call a POISON CENTER or doctor.
Call a POISON CENTER or doctor.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

Storage:

Store locked up.

Disposal:

Dispose of contents/containers in accordance with local regulation

Prevention:

Do not breathe mist, vapors, or spray.

Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye

protection, and face protection.

GHS/Hazcom 2012 Label:



Fluorosilicic Acid

DANGER!

Statements of Hazard

Harmful if swallowed.

Toxic in contact with skin.

Harmful if inhaled

Causes severe skin burns and eye damage.

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water. Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor.

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

Immediately call a POISON CE

Storage:

Store locked up.

Disposal:

Dispose of contents/containers in regulation

Prevention:

Do not breathe mist, vapors, or s Wash exposed skin thoroughly a Do not eat, drink or smoke when Use only outdoors or in a well-ve

Wear protective gloves, protective



Propane



Extremely flammable gas. Contains gas under pressure; may explode if heated.

PREVENTION

Keep away from heat, sparks, and open flames. — No smoking.

RESPONSE

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

STORAGE

Protect from sunlight. Store in well-ventilated place.



Primary and Secondary Labels



Primary Containers



- Original container
- Original label



Choices for Secondary Containers

- No label
- Manufacturer's label
- Your label (custom label created by user)







Keep away from heat, sparks and flame - No smoking. Take precautionary measures against static discharge. Keep from direct sunlight. Keep container closed when not in use. Store in a cool/low temperature, well-ventilated place away from heat and ignition sources. Use only in a well-ventilated area. Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment, avoid direct contact. Flush eyes with water for at least 15 minutes while holding eyelids open.

> All-Chem Supply Company 353 Water Street Maplewood, NJ 01234 Tel: 973-555-4321





No label?→In control

- →In hand.
- →In reach.
- →In sight.





Manufacturer's Labels

Employers may choose to label workplace containers ... with the same label required for shipped containers of the chemical.



Keep away from heat, sparks and flame — No smoking. Take precautionary measures against static discharge. Keep from direct sunlight. Keep container closed when not in use. Store in a cool/low temperature, well-ventilated place away from heat and ignition sources. Use only in a well-ventilated area. Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment, avoid direct contact. Flush eyes with water for at least 15 minutes while holding eyelids open.

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You can make your own labels

- May <u>create</u> your <u>own labeling system</u> that works for your workplace and employee population.
- As long as the <u>required information</u> is immediately <u>available</u>:
 - Name (identifier)
 - Hazards
- Your employees are <u>trained</u>.





Choices for Secondary Containers

- No label
- Manufacturer's label
- Your label
- But youremployees mustbe trained

