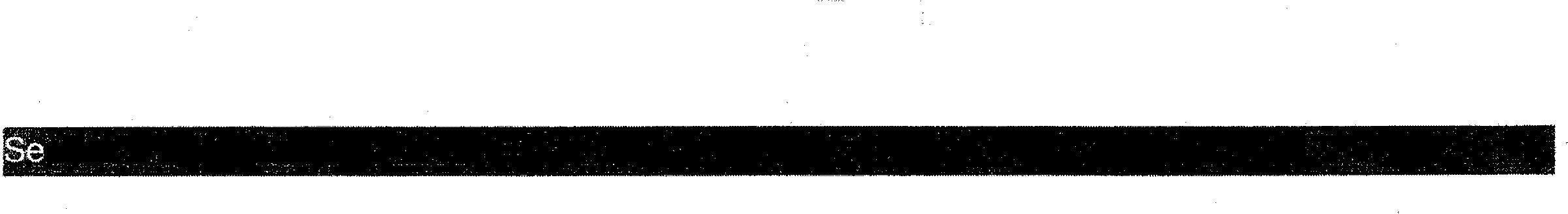


## Manufactured for and distributed by:



**Flatwater Inc.**

**1173 Old Vincennes Trial O'Fallon, IL 62269**

**FLATWATER ALUMINUM BRIGHTENER REVISED: 7/30/20**

·· · ctio'n 1 Identification

,

**Trade Name: FLATWATER ALUMINUM BRIGHTENER Phone: 618-624-4091**

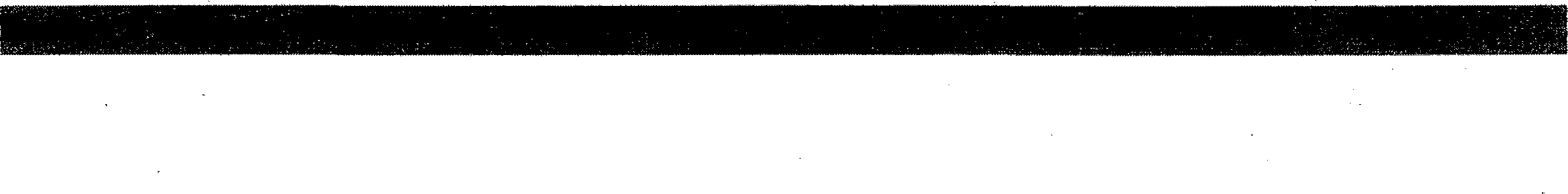


**Safety Data Sheet**

Product Use: ALUMINUM BRIGHTENER

Emergency Phone:

Infotrac (800)-535-5053

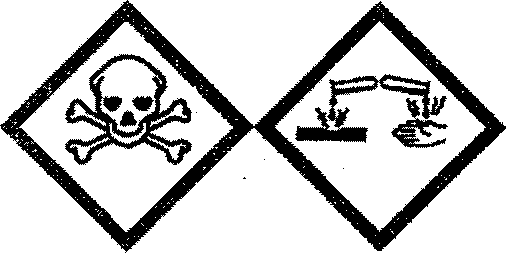
Section 2 Hazards Identification . ·

Classifications

Skin corrosion - Category 1 Eye Damage - Category 1

Acute Toxicity - Oral • Category 3

. Acute Toxicity· Inhalation - Category 4 Corrosive to Metals

Toxic

Signal Word:

Corrosive Danger

Hazard Statements  Keep out of reach of children.

Read label and SDS before use.

Toxic if swallowed

Harmful if inhaled



Causes severe skin bums and eye damage May be corrosive to metals

Precautionary Statements Prevention

Do not breathe mists.

Use only outdoors or in a well-ventilated area.

Wash hands, face, and all other exposed areas of body thoroughly after handling. Wear protective gloves and clothing.

Wear eye and face protection.

Do not eat, drink or smoke when using this product. Keep only in original container.





Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or a physician

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

Overexposure may produce hypocalcemia, therefore systemic administration of calcium gluconate may be necessary. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

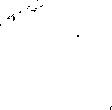
Continue rinsing.

### Flatwater Inc.

1173 Old Vincennes Trial O'Fallon, IL 62269

**Safety Data Sheet**

**FLATWATER ALUMINUM BRIGHTENER PAGE 2**

Immediately call a poison center or a physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or a physician.

Absorb spillage to prevent material damage.

**Storage**

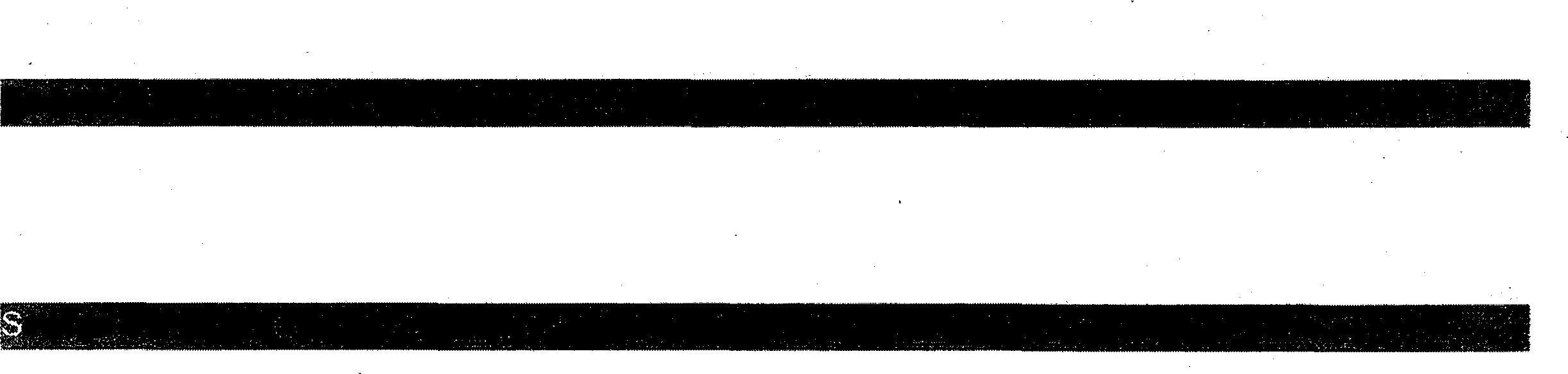
Store locked up.

Store in corrosive resistant plastic container.

Disposal

Dispose of contents and container in accordance with all local, regional, and national regulations.

**Hazards Not Otherwise Specified**

Both the liquid and vapor can cause severe burns which may not be immediately painful or visible. May cause systemic toxic effects such as fluorosis, hypocalcemia and cardiac arrhythmia.

# �ection 3 Composition

Chemical Name Hydrofluoric Acid

# ettiQn 4 First Aid

CAS#

**7664-39-3**

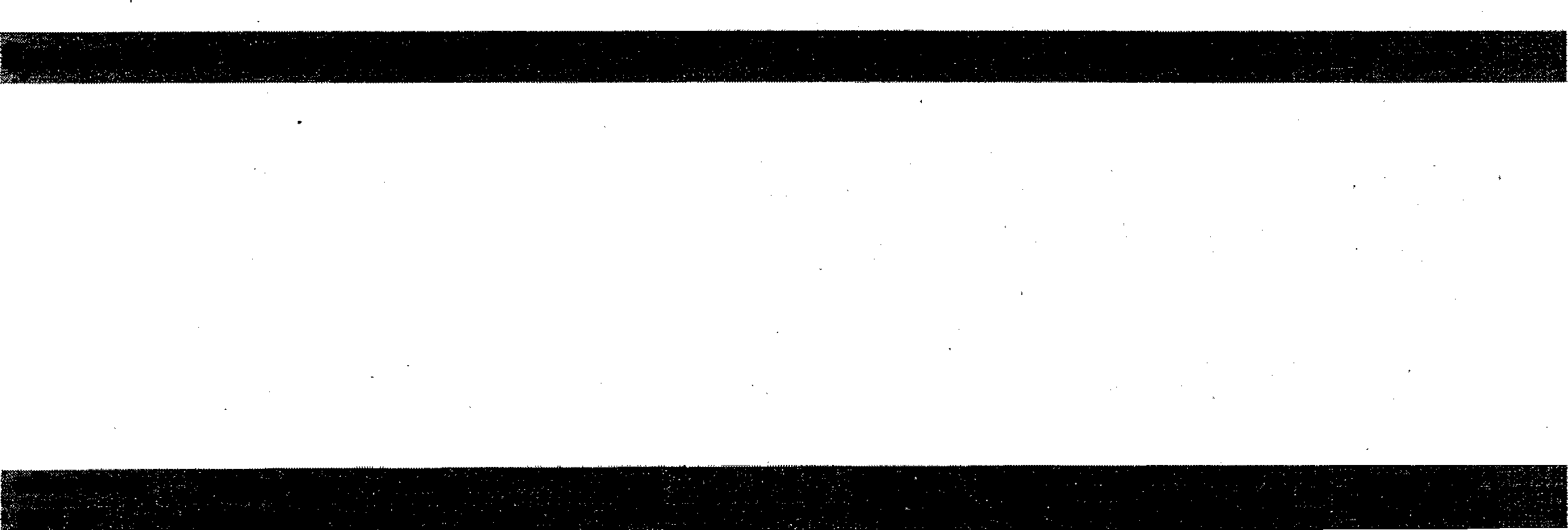
EMERGENCY OVERVIEW

Concentration

%byWeight

**5-25**

DANGER. Harmful if swallowed or inhaled. ca�ses severe skin burns and eye damage. Do not get on skin. Avoid breathing vapor or mists.



�ectio� n 5 Fire Fighting Measures

"°"(

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 a physician.

SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water/shower. If skin irritation persists get medical attention. Overexposure may produce hypocalcemia, therefore systemic administration of calcium gluconate may be necessary.

INHALATION: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or a doctor. INGESTION: Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

### Flatwater Inc.

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**Safety Data Sheet FLATWATER ALUMINUM**

**BRIGHTENER - PAGE 3**

**Suitable fire extinguishing media:**

**Use water spray, fog or foam.**

**Specific hazards arising from the chemical:**

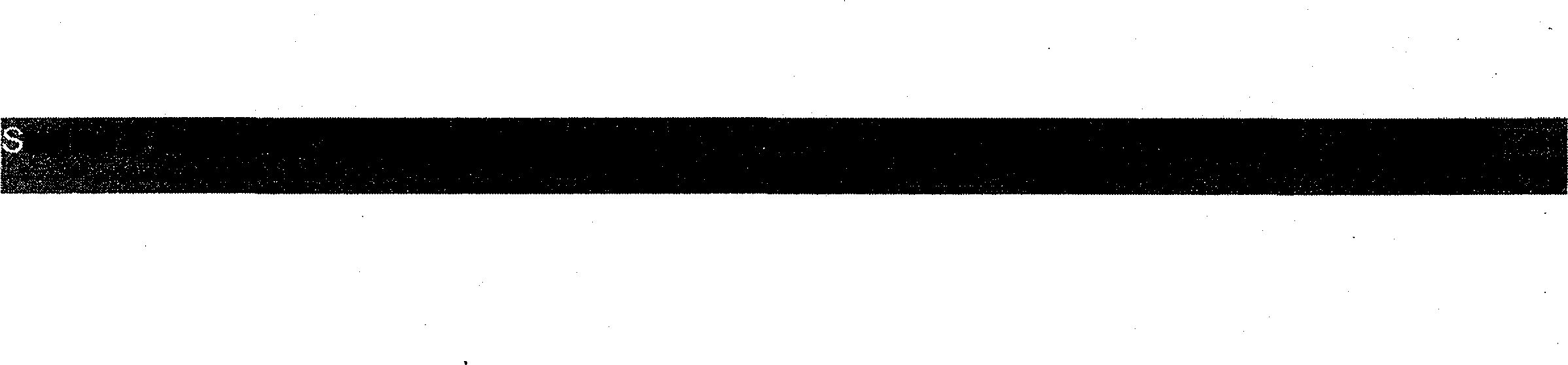
**Containers may build pressure and rupture. Hazardous thermal decomposition products:**

**Carbon Dioxide, Carbon Monoxide Specific fire-fighting methods:**

**Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.**

**Special protective equipment for fire fighters:**

**Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full**



**face-piece operated in a positive pressure mode.**

." � >" .'

ection 6 Accidental Release Measures

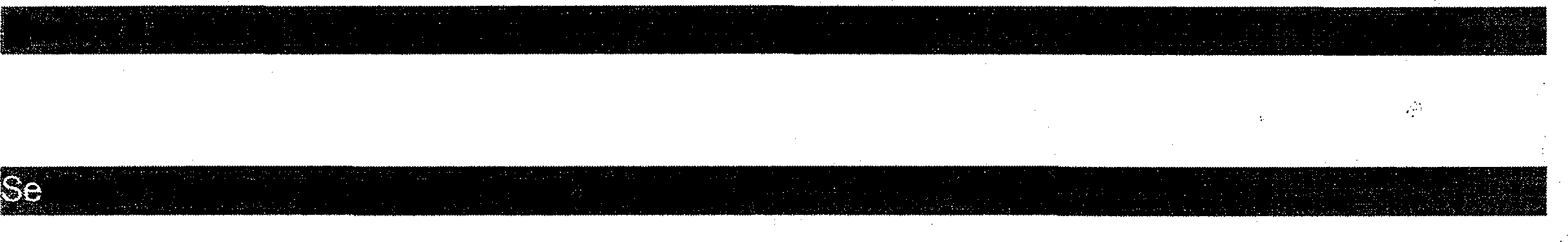
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**Personal precautions:**

**Put on appropriate personal protective equipment (see section 8) Environmental precautions and clean-up methods:**

**Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Disperse vapors with water**

**spray. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.**



j=}ction 7 Handling and Storage

**Do not use or store near heat, sparks or open flame. Store in a cool, dry place. Do not get in eyes, on skin or on clothing. Avoid breathing sprays and vapors. Keep out of reach of children.**

·., ction 8 Exposure Controls/Personal Protection

**Hydrofluoric Acid**

**ACGIH TLV OSHA PEL**

**3ppm 3ppm**

**Eye Protection: Wear safety glasses or goggles.**

**Skin Protection: Wear impervious gloves (made from rubber, nitrile or neoprene), clothing, and boots.**

**Respiratory Protection: When respiratory protection is required, use an organic vapor** & **particulate cartridge. All respiratory programs must meet OSHA's 29 CFR 1910.34** & **ANSI 288.2 requirements.**

**Engineering Controls: Good general ventilation required.**



**Safety Data Sheet**

## FLATWATER ALUMINUM BRIGHTENER - PAGE 4

### ection 9 Physical and Chemical Properties

Property Value

Appearance CLEAR LIQUID Auto Ignition Temp NOT AVAILABLE Boiling Point NOT AVAILABLE Color COLORLESS Decomposition Temperature NOT AVAILABLE Evaporation Rate NOT AVAILABLE Explosive Limit Ranges NOT AVAILABLE Explosive Properties NOT AVAILABLE Flash Point NONE Melting/Freezing Point NOT AVAILABLE

Odor ACIDIC Odor Threshold NOT AVAILABLE Other Information voe content (wt. %): 2.5 Oxidizing Properties NOT AVAILABLE

Partition Coeff NOT AVAILABLE Physical State LIQUID Relative Density 1.0 Solubility (Water) COMPLETE

Vapor Density NOT AVAILABLE Vapor Pressure NOT AVAILABLE Viscosity NOT AVAILABLE pH <1

### ection 10 Stability and Reactivity

**Reactivity** :

**Chemical Stability** : **Incompatible Materials: Conditions to Avoid** : **Decomposition Products:**

Under normal conditions of storage and use, hazardous reactions will not occur. Stable under normal conditions.

Strong alkalies, oxidizers, organic matter, certain metals (aluminum)

High temperatures CO, CO2, H2, SO2

### Section 11 Toxicological Information

**Primary Route of Entry:** Skin contact, skin absorption, eye contact, inhalation

**Acute/Potential Health Effects:**

**EYES:** causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva. Can injure the cornea and cause blindness.

**SKIN:** Both the liquid and vapor can cause severe burns which may not be immediately painful or visible.

**INHAlATION:** Breathing of this material Is harmful. Mist or vapor inhalation can cause severe irritation to the nose, throat and upper respiratory tract.

**INGESTION:** Harmful or fatal if swallowed. Corrosive. Symptoms may include severe burning and pain in mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.

**Chronic/ Long Term Effects:** Repeated exposure may produce erosion and discoloration of teeth. May cause systemic toxic effects such as fluorosis, hypocalcemia and cardiac arrhythmia. 2-Butoxyethanol has caused red blood cell hemolysis in lab animals and secondary injury to the liver and kidney.

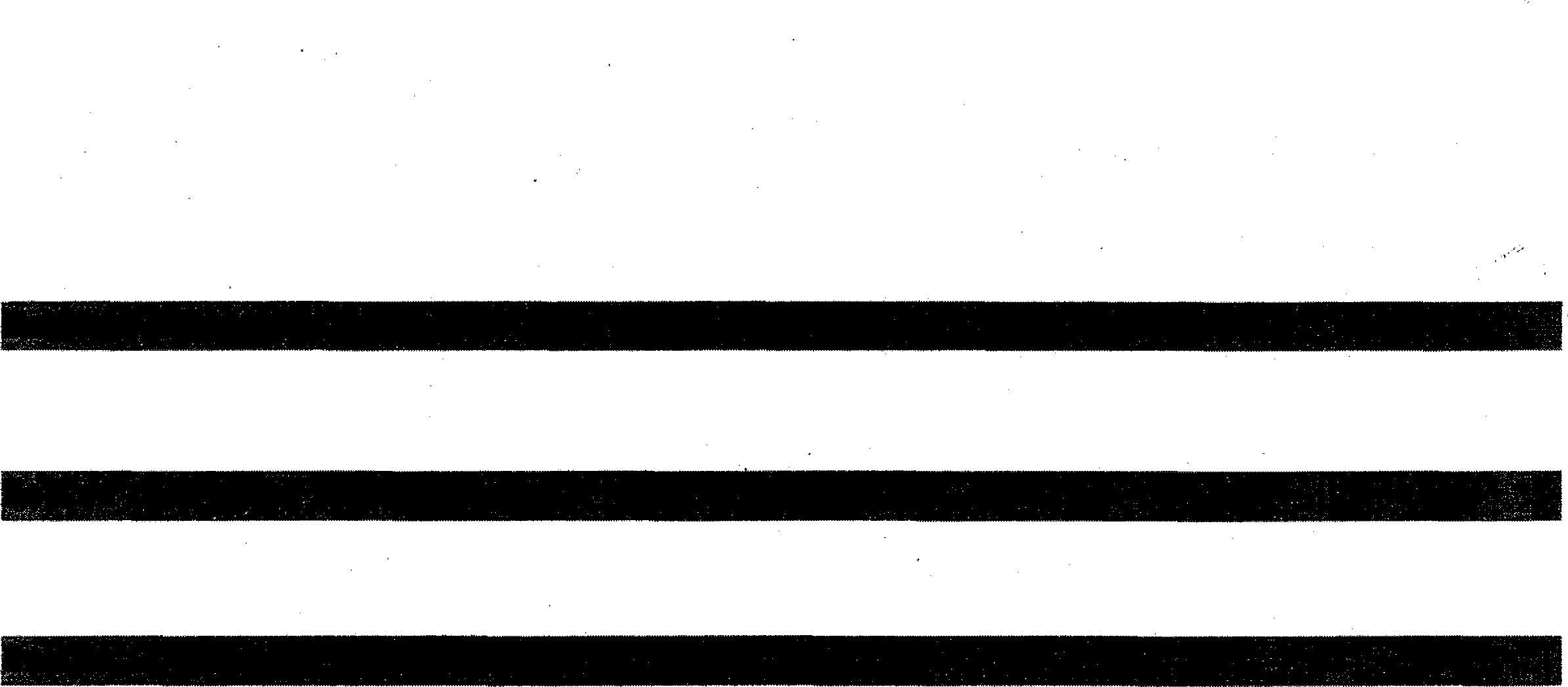
**Target Organ Effects:** Lungs and upper respiratory tract, gastrointestinal tract, eyes, skin.

**Reproductive/Developmental Information:** No data.

**Carcinogenic Information:** This material is not listed as a carcinogen by IARC, NTP or OSHA.

**Acute Toxicity Values:**

Hydrofluoric acid: LDS0 (dermal, rat)=401-802 mg/kg.



**Safety Data Sheet**

**FLATWATER ALUMUNUM BRIGHTENER - PAGE 5**

Seption 12 Ecological Information

Section 13 Disposal Considerations

**Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.**

Section 14 Transport Information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

UN number 3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS HYDROFLUORIC ACID)

Class 8

Packing group II

CERCLA RQ (40 CFR 302)



Section 15 Regulatory Information

Hydrofluoric Acid 100 lbs

Sections 302 & 304 of Title Ill of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (40 CFR 355) Hydrofluoric Acid

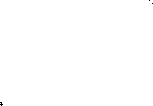
Section 313 of Title Ill of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (40 CFR 372.65) Hydrofluoric Acid

If identified components of this product are CERCLA hazardous substances and/or listed under Sections 302, 304. or 313 of Title Ill of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (also known as EPCRA, the Emergency Planning and Community Right-To-Know Act), or under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act), they are listed above in Section 15 of this SOS.

If identified components of this product are listed under Section 313, this product contains toxic chemicals subject to the reporting requirements of Section 313. This information must be included in all SOS that are copied and distributed for this material.

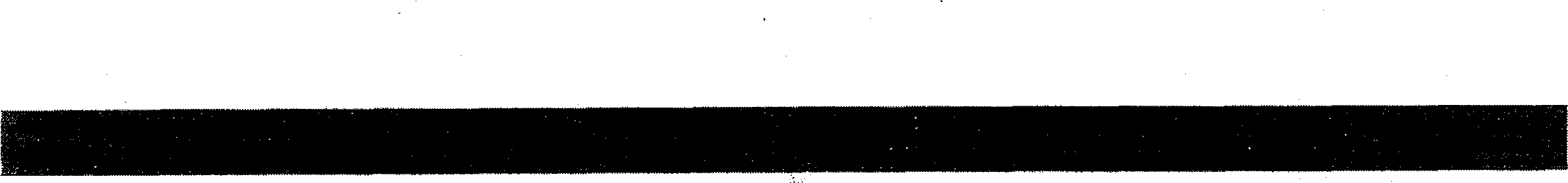
rrtle Ill Section 311/312 Hazardous categories - 40 CFR 370.2:

ACUTE {X) Chronic {X) Fire ( ) Pressure ( ) Reactive ( ) Not Applicable ( )

T.S.C.A. Status: All chemical substances found In this product comply with the Toxic Substances control Act inventory reporting requirements.

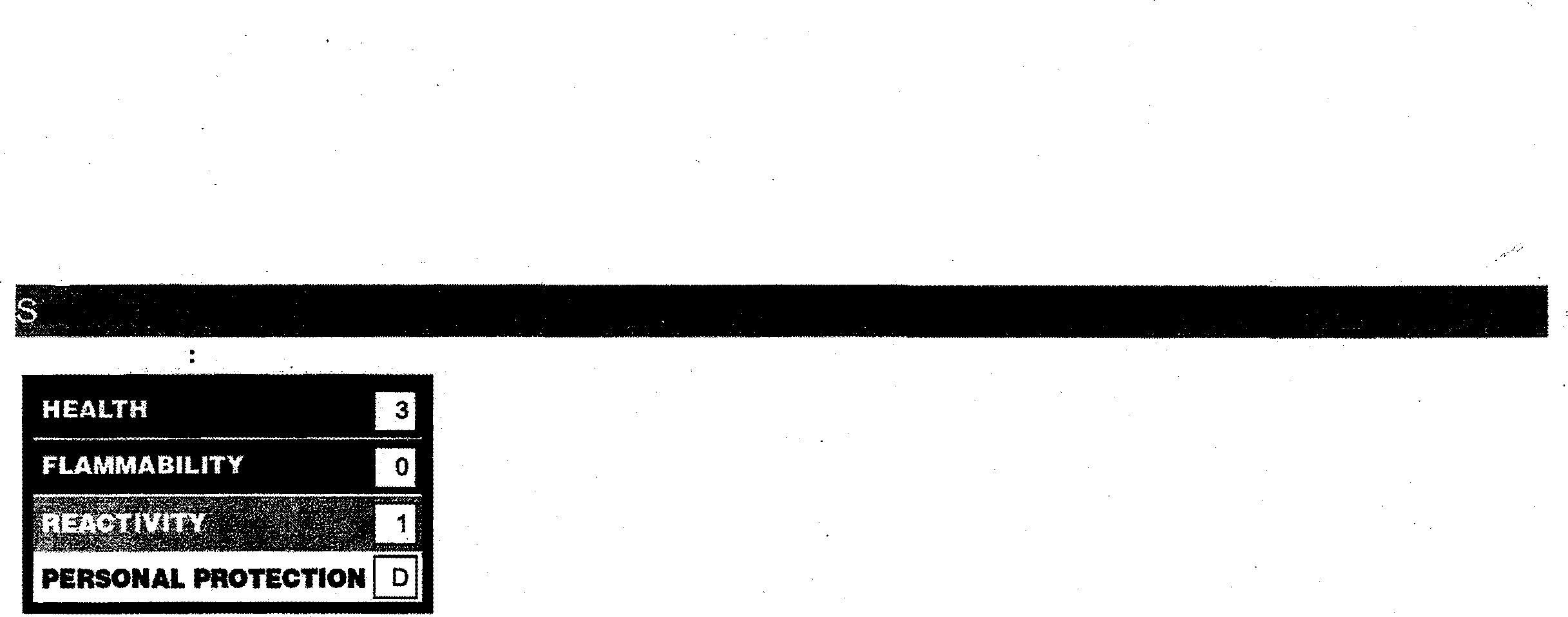
RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes hazardous waste It would be assigned RCRA Code(s)

0002



SDS #

6009



**Safety Data Sheet**

**FLATWATER ALUMINUM BRIGHTENER - PAGE 6**

ection 16 Other Information

HMIS **Ratings**

Disclaimer: This Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.



Preparation/Revision Date: 7/30/20















