

**MATERIAL
SAFETY
DATA**

NFPA Designation 704

DEGREE OF HAZARD
4 = EXTREME

FLAMMABILITY	
HEALTH	2
REACTIVITY	

0 = INSIGNIFICANT

FORMULA 4112

SECTION III - PHYSICAL DATA

APPEARANCE: Yellow-green liquid
BOILING POINT: 219°F (104°C) for 12.5% NaOCl by wt.
FREEZING POINT: - 11°F (- 24°C) for 12.5% NaOCl by wt.
ODOR: Chlorine
pH: 12.5 - 13.5 s.u. @ 25°C
VISCOSITY (Cs): 2.15 @ 23°C for 12.5% NaOCl by wt.
% VOLATILE BY VOLUME: Variable water plus products of decomposition
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY (Water=1): 1.196 @ 20°C for 12.5% NaOCl by wt.
VAPOR DENSITY (AIR=1): Not available
VAPOR PRESSURE (mm Hg): Variable water plus products of decomposition.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (Test method):

Not applicable

MATERIAL

NEPA designation 704

FLAMMABILITY

**MATERIAL
SAFETY**

NFPA Designation 704

FLAMMABILITY
HEALTH

MATERIAL

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**MATERIAL
SAFETY
DATA
SHEET**

NFPA Designation 704

DEGREE OF HAZARD
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

FLAMMABILITY	
HEALTH	
REACTIVITY	
SPECIAL HAZARD	

FORMULA 4112

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION
Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURES

IN THE EVENT OF A TRANSPORTATION EMERGENCY, CALL CHEMTREC: (800) 255-3924.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Cleanup personnel must wear proper protective equipment (See Section VIII). Contain in diked area. Neutralize with sodium bisulfite or ferrous salt solutions. Place neutralized material in DOT specification approved container(s). Flush

**MATERIAL
SAFETY
DATA
SHEET**

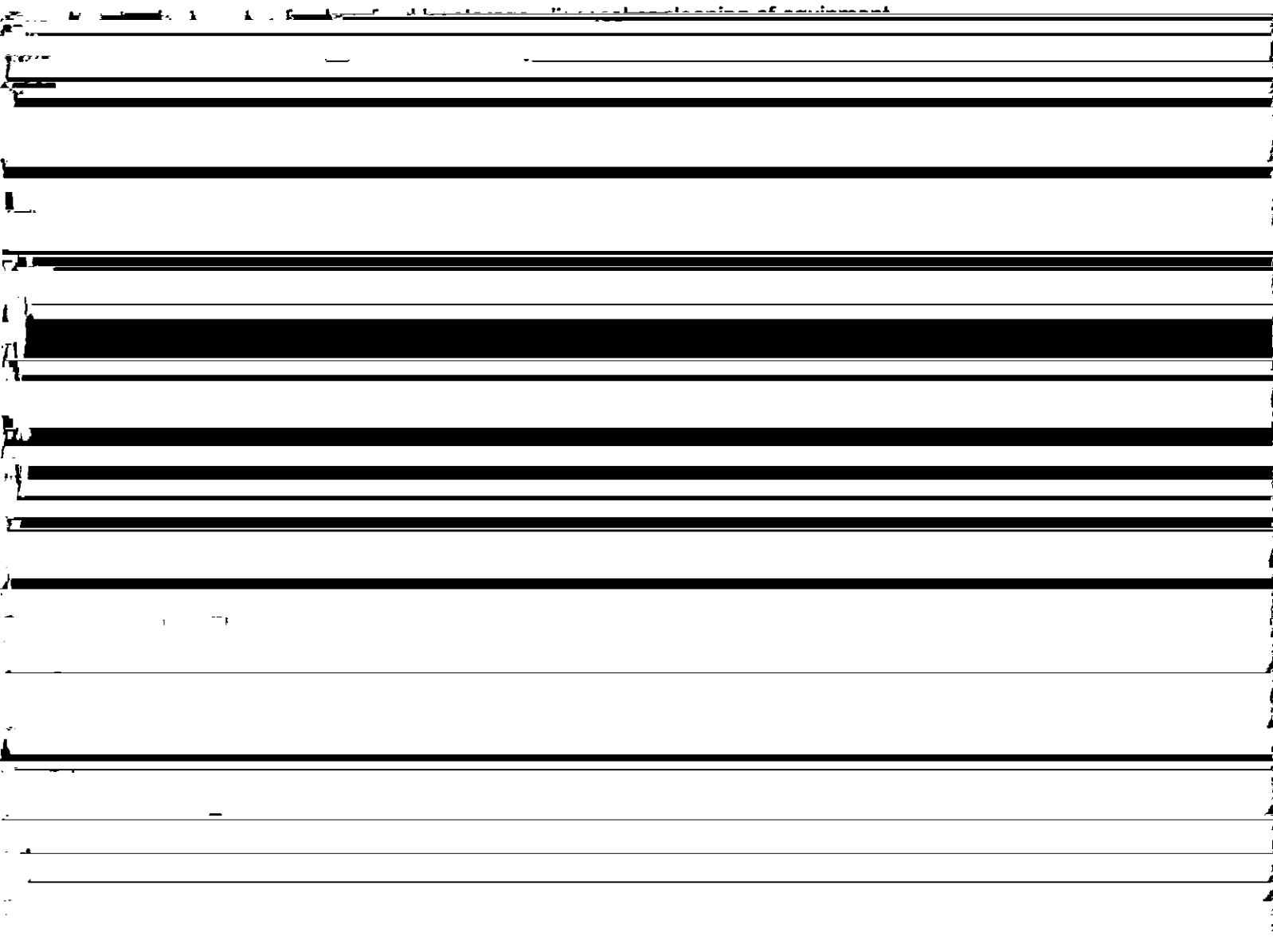
NFPA Designation 704

DEGREE OF HAZARD

- 4 = EXTREME
- 3 = HIGH
- 2 = MODERATE
- 1 = SLIGHT
- 0 = INSIGNIFICANT

FLAMMABILITY	
HEALTH	
REACTIVITY	
SPECIAL HAZARD	

FORMULA 4112



Store in an upright position!!!

OTHER PRECAUTIONS

STRONG OXIDIZING AGENT: Mix with water according to label directions. Mixing this product with grease filth such



MATERIAL

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

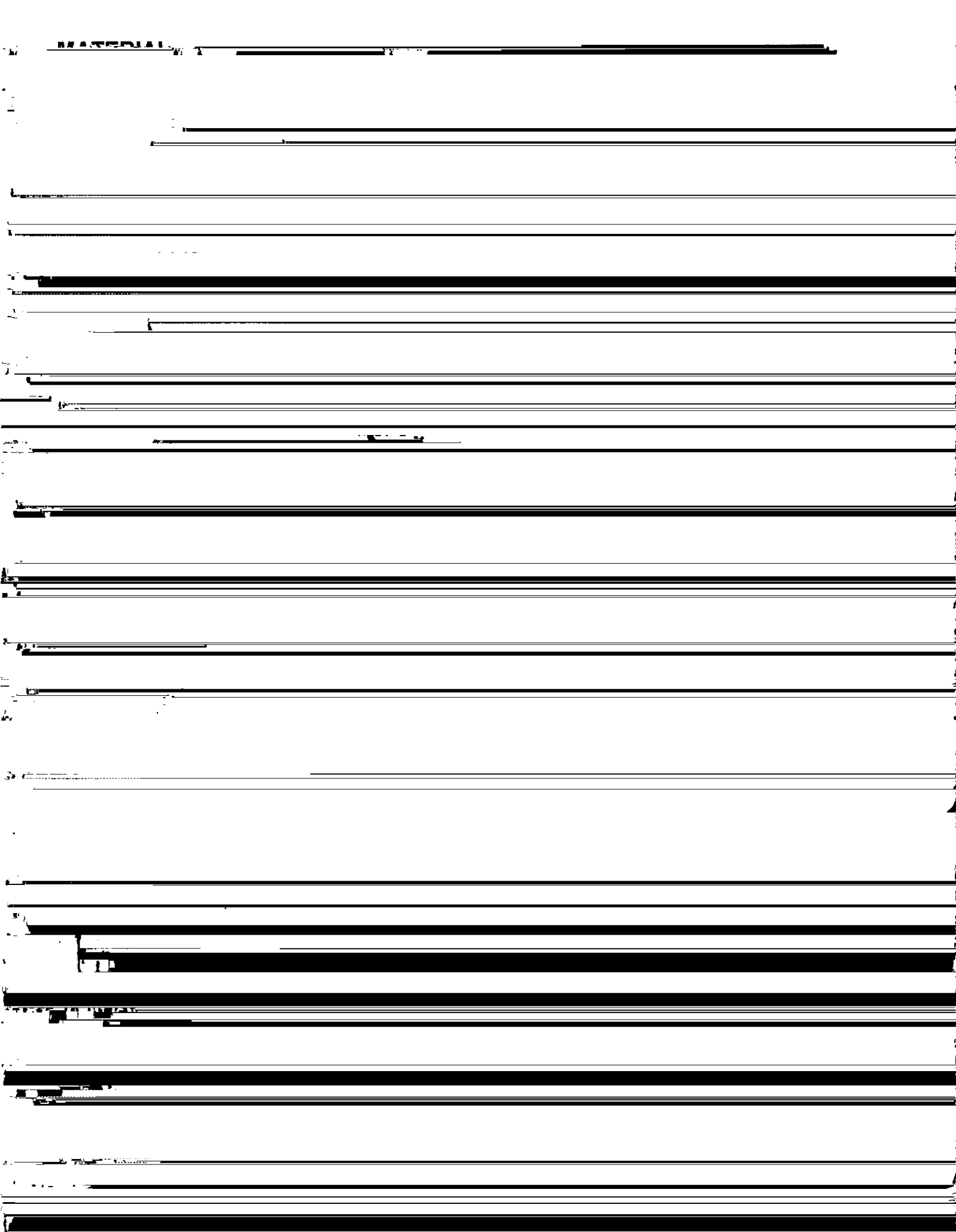
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



**MATERIAL
SAFETY
DATA
SHEET**

NFPA Designation 704

DEGREE OF HAZARD

- 4 = EXTREME
- 3 = HIGH
- 2 = MODERATE
- 1 = SLIGHT
- 0 = INSIGNIFICANT

FLAMMABILITY	
HEALTH	
REACTIVITY	
SPECIAL HAZARD	

FORMULA 4112

EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE (see Routes of Exposure above)

CHRONIC OVEREXPOSURE (see Routes of Exposure above)

**MATERIAL
SAFETY
DATA
SHEET**

NFPA Designation 704

DEGREE OF HAZARD

- 4 = EXTREME
- 3 = HIGH
- 2 = MODERATE
- 1 = SLIGHT
- 0 = INSIGNIFICANT

FLAMMABILITY	
HEALTH	
REACTIVITY	
SPECIAL HAZARD	

FORMULA 4112

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURES

IN THE EVENT OF A TRANSPORTATION EMERGENCY, CALL CHEMTREC: (800) 255-3924

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Cleanup personnel must wear proper protective equipment (See Section VIII). Contain in diked area. Neutralize with

**MATERIAL
SAFETY
DATA
SHEET**

NFPA Designation 704

DEGREE OF HAZARD
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

FLAMMABILITY	
HEALTH	
SPECIAL HAZARD	

FORMULA 4112

Applied Water Treatment Products, Inc. 24 Hours Emergency Service

[The remainder of the page is obscured by heavy black redaction bars.]

**MATERIAL
SAFETY
DATA
SHEET**

NFPA Designation 704

DEGREE OF HAZARD

4 = EXTREME

3 = HIGH

2 = MODERATE

1 = SLIGHT

FLAMMABILITY

HEALTH

ENVIRONMENTAL

0 = INSIGNIFICANT

FORMULA 4112

SECTION III - PHYSICAL DATA

APPEARANCE: Yellow-green liquid
BOILING POINT: 219°F (104°C) for 12.5% NaOCl by wt.
FREEZING POINT: - 11°F (- 24°C) for 12.5% NaOCl by wt.
ODOR: Chlorine
pH: 12.5, 13.5 @ 25°C

VISCOSITY (cP): 2.45 @ 22°C for 12.5% NaOCl by wt.

% VOLATILE BY VOLUME: Variable water plus products of decomposition

**MATERIAL
SAFETY
DATA
SHEET**

NFPA Designation 704

DEGREE OF HAZARD

- 4 = EXTREME
- 3 = HIGH
- 2 = MODERATE
- 1 = SLIGHT
- 0 = INSIGNIFICANT

FLAMMABILITY	
HEALTH	
SPECIAL HAZARD	

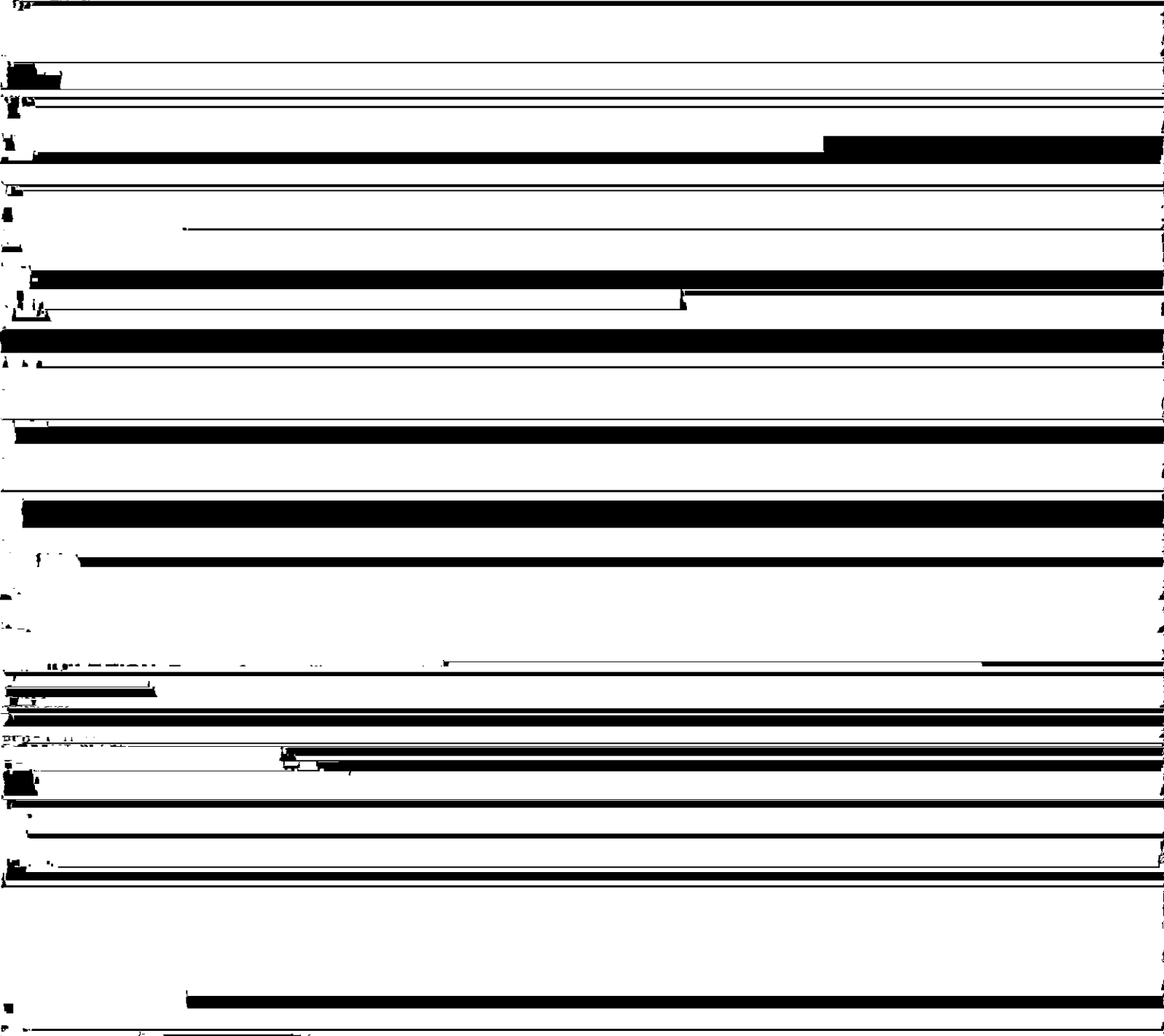
FORMULA 4112

EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE (see Routes of Exposure above)

- **SWALLOWING:** See "ingestion" under routes of exposure.

SKIN CONTACT: severe irritant, reddening of skin, slight desquamation



**MATERIAL
SAFETY
DATA
SHEET**

NFPA Designation 704

DEGREE OF HAZARD

- 4 = EXTREME
- 3 = HIGH
- 2 = MODERATE
- 1 = SLIGHT

FLAMMABILITY	
HEALTH	
SPECIAL HAZARD	

FORMULA 4112

Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration. In case of spill, flood

Disposal for domestic use: Do not reuse container. Rinse thoroughly before discarding in trash. Disposal for all other uses: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a container