

# **Safety Data Sheet**

Revision Number 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name

**HARDNESS REAGENT 7** 

Other means of Identification

Product Code(s)

4487

Recommended use of the chemical and restrictions on use

Recommended Use

Use as a laboratory reagent. Laboratory chemicals. Industrial (not for food or food contact

use).

Details of the supplier of the safety data sheet

LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone numbers

(CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

#### 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status** 

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### **EMERGENCY OVERVIEW**

Appearance Clear, colorless

Physical state liquid

Odor Odorless

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of reach of children.

iF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Drink 1 or 2 glasses of water. Call a physician immediately.

Storage:

Store in a well-ventilated place. Keep cool.

**Unknown Acute Toxicity** 

1% of the mixture consists of ingredient(s) of unknown toxicity.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS\*

# 4. FIRST AID MEASURES

First Ald Measures

General advice Do not get in eyes, on skin, or on clothing.

Eve contact Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally

lifting upper and lower eyelids. If eye irritation persists, consult a specialist.

Skin contact Wash off immediately with plenty of water. If symptoms persist, call a physician. Wash

contaminated clothing before reuse.

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Use personal protective equipment. See section 8 for more information. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device.

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes, and inhalation of vapors. Use

personal protective equipment. See section 8.

Environmental precautions See Section 12 for additional Ecological Information. Beware of vapors accumulating to

form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in

a chemical waste container for later disposal. Dispose according to local regulations, if

permitted dissolve in water and rinse to drain.

Methods for cleaning up After cleaning, flush away traces with water.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

Incompatible Products

Strong oxidizing agents, copper. Aluminium.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Appropriate engineering controls

**Engineering Measures** 

Showers

Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** 

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves/clothing.

Respiratory protection

No special protective equipment required under normal use conditions.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling

the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance

Clear, colonless

Odor

Odorless

Color

Clear, colorless

**Property** 

<u>Values</u>

Remarks • Method

Melting point / freezing point

Boiling point / boiling range

Flash point

ca 100 °C / 212 °F Not Applicable

Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air **Upper fiammability limit:** 

Lower flammability limit: Vapor pressure Vapor density Specific gravity

**Water solubility** Solubliity in other solvents **Partition coefficient Autoignition temperature Decomposition temperature** 

Kinematic viscosity Dynamic viscosity **Explosive properties** Oxidizing properties

No information available

No information available

No information available No information available No information available No information available No information available No information available No information available

No information available No information available No information available No information available No information available No information available No information available

#### Other Information

Softening point Molecular weight VOC Content (%) No information available No information available No information available Density Bulk density No information available No information available

### 10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of use and storage.

**Hazardous Reactions** 

Contact with metals may evolve flammable hydrogen gas.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Temperature extremes.

incompatible materials

Strong oxidizing agents. copper. Aluminium.

Hazardous decomposition products Carbon oxides (COx). Nitrogen oxides (NOx).

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component identification

Information on toxicological effects

Chronic toxicity

None known.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Unknown Aquatic Toxicity 1.008 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

### 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste product or used containers according to local regulations.

Contaminated packaging

Do not reuse empty containers.

# 14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

ATA

Not regulated

Not regulated IMDG/IMO

RID Not regulated

Not regulated ADR

Not regulated ADN

# 15. REGULATORY INFORMATION

#### International Inventories

Complies **TSCA** DSL/NDSL Complies Does not comply **EINECS/ELINCS** Complies ENCS Does not comply **IECSC** Does not comply KECL PICCS Does not comply Complies AICS

#### <u>Legend:</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENC\$ - Japan Existing and New Chemical Substances

IECSC - Chine Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

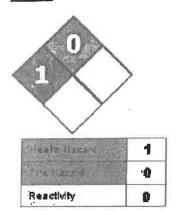
# CPSC (Consumer Product Safety Commission) - Specially Requiated Substances

#### 16. OTHER INFORMATION

NFPA

Health hazard 1

Physical and Chemical Health hazard 1
Hazards \*-



Prepared by issuing Date Reason for revision

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<u>Disclaimer</u>

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**