

# **Safety Data Sheet**

Revision Number 0

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

**Product identifier** 

Product name HARD 2 REAGENT

Other means of identification

**Product Code(s) 7030 UN-No**1219

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Industrial (not for food or food contact use). Use as a laboratory

reagent.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

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

**Emergency telephone number** 

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

# 2. HAZARDS IDENTIFICATION

Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 3

# **EMERGENCY OVERVIEW**

#### DANGER

# Hazard statements

Causes serious eye irritation. May cause cancer. May cause drowsiness or dizziness. FLAMMABLE LIQUID AND VAPOR.



Appearance dark blue

Physical state viscous liquid

Odor Rubbing alcohol

# **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

#### **Precautionary Statements - Storage**

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### Other Hazards

May be harmful if swallowed

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical Family**

Alkanolamines.

Chemical name	CAS No	Weight-%
Isopropyl alcohol	67-63-0	30
Triethanolamine	102-71-6	70

## 4. FIRST AID MEASURES

#### **First Aid Measures**

General advice Do not get in eyes, on skin, or on clothing. Remove contaminated clothing and shoes.

Immediate medical attention is required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek

immediate medical attention/advice.

**Skin contact** Remove material from skin immediately. Wash off immediately with soap and plenty of

water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Seek

immediate medical attention/advice.

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

Ingestion Do NOT induce vomiting. Drink plenty of water. Clean mouth with water. Call a physician

immediately. Never give anything by mouth to an unconscious person.

<u>Self-protection of the first aider</u> Use personal protection recommended in Section 8. Ensure that medical personnel are

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination.

Notes to Physician For additional information, see Safety Data Sheet.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical. Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Cool containers with flooding quantities of water until well after fire is out. Do not use a solid water stream as it may scatter and spread fire.

## 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. Use personal protection recommended in Section 8. Avoid

contact with skin, eyes or clothing. Avoid breathing vapors or mists.

Other Information Ventilate the area.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13). Do not flush to sewer.

**Methods for cleaning up**Use a non-combustible material like vermiculite, sand or earth to soak up the product and

place into a container for later disposal. Prevent product and washings from entering drains,

sewers or surface water due to high toxicity to aquatic organisms.

### 7. HANDLING AND STORAGE

## Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Do not taste or

swallow. Avoid contact with skin, eyes or clothing. 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. Do not store above

43 °C (110 °F). May separate and freeze below 16 °C (60 °F), thaw and mix before use. Avoid contain with copper or copper alloy. Store away from incompatible materials. Keep

out of the reach of children.

Incompatible Products copper. Copper alloys. Galvanized iron. Acids. Bases.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	400 ppm STEL TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup>	-	Not Established

## **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). Avoid contact with eyes.

**Skin and body protection** Impervious clothing. Protective gloves. Nitrile rubber.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

respiratory protection should be worn. Use only with adequate ventilation.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical state** viscous liquid **Appearance** dark blue Odor Rubbing alcohol

Property Values Remarks • Method

> pН ca. 11 No information available

Melting point / freezing point No information available Boiling point / boiling range 335 °C / 635 °F For Triethanolamine

179 °C / 354 °F Flash point Open cup for Triethanolamine

**Evaporation rate** Flammability (solid, gas) No information available

Flammability Limit in Air for Triethanolamine

Upper flammability limit: 1.3% Lower flammability limit: 8.5%

Vapor pressure No information available

Vapor density 5.1 (air=1)

Specific gravity No information available

Water solubility Infinite

Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available

**Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available Oxidizing properties No information available

Other Information

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

## 10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions. Hazardous polymerization does not occur. Hazardous polymerization

Conditions to avoid Heat, flames and sparks. Moisture. Incompatible Products. copper. Copper alloys. Galvanized iron. Acids. Bases. Incompatible materials

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

Harmful if swallowed **Product Information** 

Information on likely routes of exposure

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> (Rat) 4 h
Triethanolamine 102-71-6	= 4190 mg/kg (Rat)	> 16 mL/kg(Rat)> 20 mL/kg( Rabbit)	Not Established

Information on toxicological effects

Sensitization No information available

Carcinogenicity Triethanolamine is classified by IARC as Group 3 - not classifiable as to its carcinogenicity

to humans.

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0	-	Group 3	Not Established	X
Triethanolamine 102-71-6	-	Group 3	Not Established	-

Chronic toxicity Repeated ingestion has caused liver and kidney damage in animals.

Target organ effects kidney, liver, Eyes.

 ATEmix (oral)
 3060

 ATEmix (dermal)
 8876 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 0.3 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Isopropyl alcohol	1000: 72 h Desmodesmus	11130: 96 h Pimephales	13299: 48 h Daphnia magna
67-63-0	subspicatus mg/L EC50 1000: 96	promelas mg/L LC50 static 9640:	mg/L EC50
	h Desmodesmus subspicatus	96 h Pimephales promelas mg/L	
	mg/L EC50	LC50 flow-through 1400000: 96 h	
		Lepomis macrochirus µg/L LC50	
Triethanolamine	169: 96 h Desmodesmus	10600 - 13000: 96 h Pimephales	1386: 24 h Daphnia magna mg/L
102-71-6	subspicatus mg/L EC50 216: 72 h	promelas mg/L LC50 flow-through	EC50
	Desmodesmus subspicatus mg/L	450 - 1000: 96 h Lepomis	
	EC50	macrochirus mg/L LC50 static	
		1000: 96 h Pimephales promelas	
		mg/L LC50 static	

## Persistence and degradability

If released to water or soil Triethanolamine is expected to readily biodegrade.

# **Bioaccumulation/Accumulation**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). When released into the soil, this material may leach into ground water. When released into the air, this material is expected to be readily degraded by reaction with photochemcially produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by wet or dry deposition. When released into water, air, or soil, this material is expected to have a half life of 1-10 days.

Chemical name	Log Pow
Isopropyl alcohol 67-63-0	0.05
Triethanolamine 102-71-6	-2.53

# 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose of waste product or used containers according to local regulations. Should not be

released into the environment.

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

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes

Revision Date May-18-2015

#### 7030 HARD 2 REAGENT

Isopropyl alcohol 67-63-0	Not Established	-	Not Established	Not Established
Triethanolamine 102-71-6	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Isopropyl alcohol 67-63-0	Not Established	Not Established	Not Established	Not Established
Triethanolamine 102-71-6	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Isopropyl alcohol 67-63-0	-
Triethanolamine 102-71-6	-

# 14. TRANSPORT INFORMATION

DOT

**UN-No** 1219

Proper shipping name **ISOPROPANOL** 

**Hazard Class** 3 **Packing group** Ш

**IATA** 

**UN-No** 1219

**ISOPROPANOL** Proper shipping name

**Hazard Class** 3 Packing group Ш

IMDG/IMO

**UN-No** 1219

Proper shipping name **ISOPROPANOL** 

**Hazard Class Packing group** Ш

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS IECSC** Complies Complies **KECL** Complies **PICCS** Complies **AICS** 

Legend:

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

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

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AICS - Australian Inventory of Chemical Substances

# **US Federal Regulations**

# **SARA 313**

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

Chemical name	SARA 313 - Threshold Values %
Isopropyl alcohol 67-63-0	1.0
Triethanolamine 102-71-6	Not Established

# SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes
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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isopropyl alcohol 67-63-0	Not Established	Not Established	Not Established	Not Established
Triethanolamine 102-71-6	Not Established	Not Established	Not Established	Not Established

### **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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Isopropyl alcohol 67-63-0	-	Not Established	-
Triethanolamine 102-71-6	-	Not Established	-

# **US State Regulations**

This product does not contain any Proposition 65 chemicals

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

Chemical name	New Jersey	Massachusetts	Pennsylvania		
Isopropyl alcohol 67-63-0	X	X	X		
Triethanolamine 102-71-6	X	X	X		
16. OTHER INFORMATION					

NFPA_	Health hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards N/A
HMIS	Health hazard 2	Flammability 2	Stability 1	



Prepared by Regulatory Affairs Department Issuing Date Apr-20-2015

Revision Date May-18-2015 Reason for revision New US GHS format

**Disclaimer** 

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 Material Safety Data Sheet**