

PALMOLIVE DISHWASHING LIQUID HAND MAX ST

This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version	Revision Date:	SDS Number:	Date of last issue: -
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SECTION 1. IDENTIFICATION

Product name : PALMOLIVE DISHWASHING LIQUID HAND MAX ST
B02902630000

Product code : 100000220046

Manufacturer or supplier's details

Company name of supplier : Colgate-Palmolive Co
300 Park Avenue
New York, NY 10022

Telephone : US: Consumer Affairs - 1-800-468-6502

Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Global-CHEMTREC- +1 703-741-5970

Recommended use of the chemical and restrictions on use

Recommended use : dishwashing liquid

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



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Signal word : Danger

Hazard statements : H227 Combustible liquid.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 + P310 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/ doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	CAS-No.	Concentration (% w/w)
SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0	>= 10 - < 20
Sodium Laureth Sulfate	9004-82-4	>= 5 - < 10
Lauramidopropylamine Oxide	61792-31-2	>= 1 - < 5
ETHANOL (ETHYL ALCOHOL)	64-17-5	>= 1 - < 5
C9-11 PARETH-8	68439-46-3	>= 1 - < 5
LINEAR ALKYL BENZENE DERIVS	68648-87-3	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

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General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.		
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.		
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.		
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.		
If swallowed	: Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.		
Most important symptoms and effects, both acute and delayed	: Causes skin irritation. Causes serious eye damage.		
Notes to physician	: Treat symptomatically.		

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide (CO ₂)
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire-fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: No hazardous combustion products are known
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored sepa-

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rately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment : Wear self-contained breathing apparatus for firefighting if necessary for firefighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect 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).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.
Keep in a well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ETHANOL (ETHYL ALCOHOL)	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear

Odour : No data available

pH : 7.3

Melting point/range : No data available

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Boiling point/boiling range : No data available

Flash point : 167 °F / 75 °C

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Solubility(ies)
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, kinematic : No data available

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Not applicable

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

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Acute oral toxicity	:	Acute toxicity estimate: 4,058 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

SODIUM DODECYL BENZENE SULFONATE (LINEAR):

Acute oral toxicity	:	LD50 (Rat, male and female): 650 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

Sodium Laureth Sulfate:

Acute oral toxicity	:	LD50 (Rat): 1,600 mg/kg Method: No information available.
Acute inhalation toxicity	:	LC50 (Rabbit): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Acute toxicity estimate
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: Acute toxicity estimate

Lauramidopropylamine Oxide:

Acute oral toxicity	:	Acute toxicity estimate: 500 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LC50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

C9-11 PARETH-8:

Acute oral toxicity	:	LD50 (Rat): 3,488 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 1,600 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg

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Method: OECD Test Guideline 402

LINEAR ALKYL BENZENE DERIVS:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: Tested according to Annex V of Directive 67/548/EEC.
Acute inhalation toxicity	:	LC50 (Rabbit): > 1.82 mg/l Exposure time: 4 h Test atmosphere: vapour Method: No information available.
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: Tested according to Annex V of Directive 67/548/EEC.

Skin corrosion/irritation

Causes skin irritation.

Components:**SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Result	:	Irritating to skin.
Remarks	:	Extremely corrosive and destructive to tissue.

Sodium Laureth Sulfate:

Result	:	Skin irritation
Remarks	:	Extremely corrosive and destructive to tissue.

Lauramidopropylamine Oxide:

Result	:	Severe skin irritation
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ETHANOL (ETHYL ALCOHOL):

Result	:	No skin irritation
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C9-11 PARETH-8:

Species	:	Rabbit
Exposure time	:	4 h
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

LINEAR ALKYL BENZENE DERIVS:

Result	:	No skin irritation
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Serious eye damage/eye irritation

Causes serious eye damage.

Components:**SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Result : Corrosive

Remarks : May cause irreversible eye damage.

Sodium Laureth Sulfate:

Result : Risk of serious damage to eyes.

Remarks : May cause irreversible eye damage.

Lauramidopropylamine Oxide:

Result : Irreversible effects on the eye

ETHANOL (ETHYL ALCOHOL):

Species : Rabbit

Result : Moderate eye irritation

C9-11 PARETH-8:

Result : Risk of serious damage to eyes.

Remarks : May cause irreversible eye damage.

LINEAR ALKYL BENZENE DERIVS:

Result : No eye irritation

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Exposure routes : Inhalation

Remarks : No data available

Exposure routes : Dermal

Result : Does not cause skin sensitisation.

Sodium Laureth Sulfate:

Exposure routes : Inhalation

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Result : Does not cause respiratory sensitisation.

Exposure routes : Dermal

Result : Does not cause skin sensitisation.

Lauramidopropylamine Oxide:

Exposure routes : Inhalation

Remarks : No data available

Exposure routes : Dermal

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

ETHANOL (ETHYL ALCOHOL):

Exposure routes : Inhalation

Remarks : No data available

Exposure routes : Dermal

Result : Does not cause skin sensitisation.

C9-11 PARETH-8:

Exposure routes : Inhalation

Remarks : No data available

Test Type : Maximisation Test

Exposure routes : Dermal

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Not a skin sensitizer.

LINEAR ALKYL BENZENE DERIVS:

Exposure routes : Inhalation

Result : Does not cause respiratory sensitisation.

Exposure routes : Dermal

Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:**SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Genotoxicity in vitro : Test Type: reverse mutation assay
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

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Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Application Route: Oral
Result: negative

C9-11 PARETH-8:

Genotoxicity in vitro : Test Type: reverse mutation assay
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
GLP: yes

Carcinogenicity

Not classified based on available information.

IARC

Group 1: Carcinogenic to humans This product is not expected to exhibit carcinogenic effects. Exposure through ingestion of Ethanol (64-17-5) is not applicable to the intended use of this product.

ETHANOL (ETHYL 64-17-5
ALCOHOL)

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

This product is not expected to exhibit carcinogenic effects. Exposure through ingestion of Ethanol (64-17-5) is not applicable to the intended use of this product.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity**Components:****SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Species : Rat, male and female
NOAEL : 300 mg/kg
Application Route : Oral

Species : Rat, male

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NOAEL : < 286 mg/kg
Application Route : Dermal

C9-11 PARETH-8:

Species : Rat, male and female
NOAEL : >= 500 mg/kg
Application Route : Oral
Method : OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks : This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 2 of the SDS.

SECTION 12. ECOLOGICAL INFORMATION

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental Occupational Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients, and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable).

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

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Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT	:	NA 1993 Combustible liquid, n.o.s. (Ethanol), Comb liq, III. DOT Non-Bulk: Not Regulated. Marine Pollutant: No
TDG	:	Not regulated.
IATA	:	Not regulated.
IMDG	:	Not regulated. IMDG EmS Number :Not applicable.
ADR	:	Not regulated.

SECTION 15. REGULATORY INFORMATION**CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Skin corrosion or irritation

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Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

ETHANOL (ETHYL	64-17-5
ALCOHOL)	

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

SODIUM DODECYL	25155-30-0
BENZENE SULFONATE	
(LINEAR)	

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

SODIUM DODECYL	25155-30-0
BENZENE SULFONATE	
(LINEAR)	

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations**Massachusetts Right To Know**

WATER	7732-18-5
SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0
Sodium Laureth Sulfate	9004-82-4
ETHANOL (ETHYL ALCOHOL)	64-17-5
C9-11 PARETH-8	68439-46-3

Pennsylvania Right To Know

WATER	7732-18-5
SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0
Sodium Laureth Sulfate	9004-82-4
ETHANOL (ETHYL ALCOHOL)	64-17-5
SODIUM SULFATE	7757-82-6

The components of this product are reported in the following inventories:

TSCA : All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

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TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

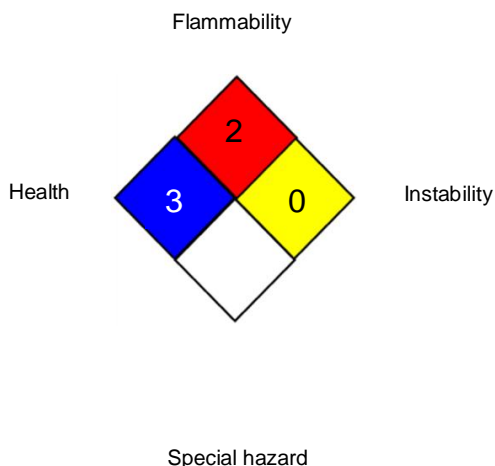
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Further information

NFPA 704:



HMIS® IV:

HEALTH	/	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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