

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : FHS 77 Foaming Hand Soap
Product code : 155-2176

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Hand cleaning soap

1.4. Supplier's details

American Cleaning Solutions
39-30 Review Avenue
Long Island City, NY, 11101
T (718) 392-8080

1.5. Emergency phone number

Emergency number : INFOTRAC: 800-535-5053

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. Label elements

GHS US labeling

No labeling applicable

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	CAS-No.: 7732-18-5	91.88492 – 92.48492	Not classified
Sodium C10-16 Pareth-2 Sulfate	CAS-No.: 68585-34-2	4.8 – 6	Not classified
Cocamidopropyl Betaine	CAS-No.: 61789-40-0	0.6 – 1.8	Not classified
Lauryl Glucoside	CAS-No.: 110615-47-9	0.6 – 1.8	Not classified
Citric acid	CAS-No.: 77-92-9	< 1	Skin Corr. 1, H314 Eye Irrit. 2A, H319 STOT SE 3, H335
2-phenoxyethylisobutyrate (Fragrance Component)	CAS-No.: 103-60-6	0.02 – 0.04	Not classified
dimethylbenzylcarbiny acetate (Fragrance Component)	CAS-No.: 151-05-3	0.002 – 0.02	Skin Irrit. 2, H315
Ethylene Brassylate (Fragrance Component)	CAS-No.: 105-95-3	0.002 – 0.02	Not classified
hexyl acetate (Fragrance Component)	CAS-No.: 142-92-7	0.002 – 0.02	Flam. Liq. 3, H226
Aphermate (Fragrance Component)	CAS-No.: 25225-08-5	0.002 – 0.02	Not classified
Iso Cyclo Citral (Fragrance Component)	CAS-No.: 1335-66-6	0.002 – 0.02	Not classified
ethylisobutyrate (Fragrance Component)	CAS-No.: 97-62-1	0.002 – 0.02	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Ethyl Heptoate (Fragrance Component)	CAS-No.: 106-30-9	0.002 – 0.02	Not classified
magnesium nitrate (Preservative)	CAS-No.: 10377-60-3	< 1	Ox. Sol. 3, H272
2,4-dimethylcyclohex-3-ene-1-carbaldehyde (Fragrance Component)	CAS-No.: 68039-49-6	≤ 0.002	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Damascone Alpha (Fragrance Component)	CAS-No.: 24720-09-0	≤ 0.002	Not classified
Methylchloroisothiazolinone (Preservative)	CAS-No.: 26172-55-4	< 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400

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Name	Product identifier	%	GHS US classification
2-methyl-2H-isothiazol-3-one (Preservative)	CAS-No.: 2682-20-4	< 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Skin Sens. 1A, H317

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Rinse with water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms/effects, acute and delayed

Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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See Heading 8. Exposure controls and personal protection.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
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7.2. Conditions for safe storage, including incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

No special requirements.

Hand protection:
None
Eye protection:
None
Respiratory protection:
No special requirements

Other information:

Do not eat, drink or smoke during use.

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SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: clear
Odor	: Apple Fragrance Added
Odor threshold	: No data available
pH	: 6 – 7
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 212 – 220 °F
Flash point	: ≥ 200 °F
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: Same as water
Relative density	: 1.04
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral) : Not classified

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Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Citric acid (77-92-9)

LD50 oral	5400 mg/kg body weight (Equivalent or similar to OECD 401, Mouse, Male / female, Experimental value, Oral, 10 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))

hexyl acetate (142-92-7)

LD50 oral rat	41.5 ml/kg (Rat, Male, Experimental value, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Experimental value, Dermal)
ATE US (oral)	36437 mg/kg body weight

magnesium nitrate (10377-60-3)

LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s))

Methylchloroisothiazolinone (26172-55-4)

ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight

2-methyl-2H-isothiazol-3-one (2682-20-4)

LD50 oral rat	120 mg/kg body weight (EPA OPPTS 870.1100: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 7 day(s))
LD50 dermal rat	242 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	0.11 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 7 day(s))
ATE US (oral)	120 mg/kg body weight
ATE US (dermal)	242 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.11 mg/l/4h
ATE US (dust, mist)	0.11 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 6 – 7

Citric acid (77-92-9)

pH	1.8 (5 %, 25 °C)
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magnesium nitrate (10377-60-3)

pH	7 (Aqueous solution)
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2-methyl-2H-isothiazol-3-one (2682-20-4)

pH	2.58 (5 %, 25 °C, EPA OPPTS 830.7000: pH)
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Serious eye damage/irritation : Not classified
pH: 6 – 7

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Citric acid (77-92-9)	
pH	1.8 (5 %, 25 °C)
magnesium nitrate (10377-60-3)	
pH	7 (Aqueous solution)
2-methyl-2H-isothiazol-3-one (2682-20-4)	
pH	2.58 (5 %, 25 °C, EPA OPPTS 830.7000: pH)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Citric acid (77-92-9)	
STOT-single exposure	May cause respiratory irritation.
Methylchloroisothiazolinone (26172-55-4)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Citric acid (77-92-9)	
Viscosity, kinematic	Not applicable (solid)
2-methyl-2H-isothiazol-3-one (2682-20-4)	
Viscosity, kinematic	Not applicable (solid)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Citric acid (77-92-9)	
LC50 - Fish [1]	440 – 760 mg/l (Equivalent or similar to OECD 203, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
hexyl acetate (142-92-7)	
LC50 - Fish [1]	4.4 mg/l (96 h, Pimephales promelas, Experimental value)
EC50 - Crustacea [1]	9.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	12 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)

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ethylisobutyrate (97-62-1)	
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
ErC50 algae	238 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)
magnesium nitrate (10377-60-3)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, Lethal)
EC50 - Crustacea [1]	490 mg/l (48 h, Daphnia magna, Fresh water, Read-across)
2-methyl-2H-isothiazol-3-one (2682-20-4)	
ErC50 algae	0.23 mg/l (Equivalent or similar to OECD 201, 96 h, Pseudokirchneriella subcapitata, Static system, Experimental value, GLP)
12.2. Persistence and degradability	
FHS 77 Foaming Hand Soap	
Persistence and degradability	Not established.
Water (7732-18-5)	
Persistence and degradability	Rapidly degradable
Citric acid (77-92-9)	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.42 g O ₂ /g substance
Chemical oxygen demand (COD)	0.728 g O ₂ /g substance
ThOD	0.686 g O ₂ /g substance
Cocamidopropyl Betaine (61789-40-0)	
Persistence and degradability	Rapidly degradable
Lauryl Glucoside (110615-47-9)	
Persistence and degradability	Rapidly degradable
Sodium C10-16 Pareth-2 Sulfate (68585-34-2)	
Persistence and degradability	Rapidly degradable
dimethylbenzylcarbinyl acetate (151-05-3)	
Persistence and degradability	Biodegradability in water: no data available.
ThOD	2.5 g O ₂ /g substance
Ethylene Brassylate (105-95-3)	
Persistence and degradability	Rapidly degradable
hexyl acetate (142-92-7)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.44 g O ₂ /g substance

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Aphermate (25225-08-5)	
Persistence and degradability	Rapidly degradable
Iso Cyclo Citral (1335-66-6)	
Persistence and degradability	Rapidly degradable
2-phenoxyethylisobutyrate (103-60-6)	
Persistence and degradability	Biodegradability in water: no data available.
ethylisobutyrate (97-62-1)	
Persistence and degradability	Biodegradability in soil: no data available, Readily biodegradable in water.
Ethyl Heptoate (106-30-9)	
Persistence and degradability	Rapidly degradable
2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)	
Persistence and degradability	Biodegradability in water: no data available.
Damascone Alpha (24720-09-0)	
Persistence and degradability	Rapidly degradable
magnesium nitrate (10377-60-3)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Methylchloroisothiazolinone (26172-55-4)	
Persistence and degradability	Not established.
2-methyl-2H-isothiazol-3-one (2682-20-4)	
Persistence and degradability	Not readily biodegradable in water.
12.3. Bioaccumulative potential	
FHS 77 Foaming Hand Soap	
Bioaccumulative potential	Not established.
Citric acid (77-92-9)	
Partition coefficient n-octanol/water (Log Pow)	-1.8 – -1.55 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.
dimethylbenzylcarbiny acetate (151-05-3)	
Bioaccumulative potential	No bioaccumulation data available.
hexyl acetate (142-92-7)	
Partition coefficient n-octanol/water (Log Pow)	3.3 (Practical experience/observation, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 30 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-phenoxyethylisobutyrate (103-60-6)	
Bioaccumulative potential	No bioaccumulation data available.

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ethylisobutyrate (97-62-1)	
Partition coefficient n-octanol/water (Log Pow)	1.8 (Practical experience/observation, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)	
Bioaccumulative potential	No bioaccumulation data available.
magnesium nitrate (10377-60-3)	
Bioaccumulative potential	Not bioaccumulative.
Methylchloroisothiazolinone (26172-55-4)	
Bioaccumulative potential	Not established.
2-methyl-2H-isothiazol-3-one (2682-20-4)	
BCF - Fish [1]	5.75 – 48.1 (56 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-0.486 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
Citric acid (77-92-9)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
hexyl acetate (142-92-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.47 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
ethylisobutyrate (97-62-1)	
Ecology - soil	No (test)data on mobility of the substance available.
2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)	
Ecology - soil	No (test)data on mobility of the substance available.
magnesium nitrate (10377-60-3)	
Ecology - soil	No (test)data on mobility of the substance available.
2-methyl-2H-isothiazol-3-one (2682-20-4)	
Surface tension	68.8 mN/m (19.5 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.06 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Experimental value, GLP)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

Ozone : Not classified

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Fluorinated greenhouse gases : No

Other information : Avoid release to the environment.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecological information : Avoid release to the environment.

SECTION 14 Transport information

14.1. UN number

Not regulated for transport

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated

Proper Shipping Name (TDG) : Not regulated

Proper Shipping Name (IMDG) : Not regulated

Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated

Packing group (TDG) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

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IATA

Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Water	7732-18-5	Present	Active	
Citric acid	77-92-9	Present	Active	
Cocamidopropyl Betaine	61789-40-0	Not present	-	
Lauryl Glucoside	110615-47-9	Not present	-	
Sodium C10-16 Pareth-2 Sulfate	68585-34-2	Not present	-	
dimethylbenzylcarbiny acetate	151-05-3	Not present	-	
Ethylene Brassylate	105-95-3	Not present	-	
hexyl acetate	142-92-7	Not present	-	
Aphermate	25225-08-5	Not present	-	
Iso Cyclo Citral	1335-66-6	Present	Active	
2-phenoxyethylisobutyrate	103-60-6	Not present	-	
ethylisobutyrate	97-62-1	Not present	-	
Ethyl Heptoate	106-30-9	Not present	-	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	Present	Active	
Damascone Alpha	24720-09-0	Not present	-	
magnesium nitrate	10377-60-3	Not present	-	
Methylchloroisothiazolinone	26172-55-4	Not present	-	
2-methyl-2H-isothiazol-3-one	2682-20-4	Not present	-	

15.2. International regulations

CANADA

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

Iso Cyclo Citral (1335-66-6)

Listed on the Canadian DSL (Domestic Substances List)

2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

No additional information available

15.3. State regulations

No additional information available

SECTION 16 Other information

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Revision date : 8/18/2020

Issue date : 2/13/2024

Other information : None.

Full text of hazard classes and H-statements	
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : B - Safety glasses, Gloves

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.