

SECTION 1 Identification

1.1. Product identifier

Product form	: Substance
Trade name	: Ethyl 3-ethoxypropanoate (EEP)
IUPAC name	: ethyl 3-ethoxypropionate
CAS-No.	: 763-69-9
Product code	: 42010
Formula	: C7H14O3

1.2. Other means of identification

Synonyms	: Ethyl 3-ethoxypropionate / Propanoic acid, 3-ethoxy-, ethyl ester / Propionate, 3-ethoxy-, ethyl / Propionic acid, 3-ethoxy-, ethyl ester / EEP solvent / 3-Ethoxypropionic acid, ethyl ester / Ethyl .beta.-ethoxypropionate / ethyl 3-ethoxypropionate / 3-Ethoxypropanoic acid, ethyl ester
EC-No.	: 212-112-9

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture	: Solvent, Intermediate
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1.4. Supplier's details

Manufacturer

Monument Chemical
16717 Jacintoport Blvd.
Houston, TX, 77015
USA
T 832-376-2000
sds@monumentchemical.com - www.monumentchemical.com

1.5. Emergency phone number

Emergency number	: 24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970); 24 HR Emergency Assistance: 1-832-376-2026
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SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquid, Category 3	H226	Flammable liquid and vapor.
Full text of H statements : see section 16		

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H226 - Flammable liquid and vapor
Precautionary statements (GHS US)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed.

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P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

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

Substance type : Mono-constituent

Name	Product identifier	%
Ethyl 3-ethoxypropanoate (Main constituent)	CAS-No.: 763-69-9	≥ 99

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

3.2. Mixtures

Not applicable

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspersion pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

First-aid measures after eye contact : Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion : Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.html). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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4.2. Most important symptoms/effects, acute and delayed

Potential Adverse human health effects and symptoms	: Practically non-toxic if swallowed (LD50 oral, rat > 2000 mg/kg). Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Repeated exposure may cause skin dryness or cracking. Slightly harmful by inhalation. Caution! Substance is absorbed through the skin.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Nausea. Headache.
Symptoms/effects after skin contact	: ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin. Red skin. Swelling of the skin.
Symptoms/effects after eye contact	: Irritation of the eye tissue. Redness of the eye tissue.
Symptoms/effects after ingestion	: AFTER INGESTION OF HIGH QUANTITIES: Gastrointestinal complaints.
Chronic symptoms	: No effects known.

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	: Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (alcohol-resistant). Water spray if puddle cannot expand.
Unsuitable extinguishing media	: Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

5.2. Specific hazards arising from the chemical

Fire hazard	: DIRECT FIRE HAZARD: Flammable liquid and vapour. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD: May be ignited by sparks.
Explosion hazard	: DIRECT EXPLOSION HAZARD: Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD: May be ignited by sparks.
Hazardous decomposition products in case of fire	: Upon combustion: CO and CO2 are formed.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety.
Protection during firefighting	: Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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For non-emergency personnel

Protective equipment	: Gloves (EN 374). Safety glasses (EN 166). Protective clothing (EN 14605 or EN 13034).
Emergency procedures	: Mark the danger area. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Large spills/in confined spaces: consider evacuation. Wash contaminated clothes.

For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

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Environmental precautions : Prevent spreading in sewers.

6.2. Methods and materials for containment and cleaning up

For containment : Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Heating: dilute combustible gas/vapour with water curtain.

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: dry lime or soda ash. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

See Heading 8. Exposure controls and personal protection.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from naked flames/heat. At temperature > flashpoint: use spark-/explosionproof appliances. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep container tightly closed.

Hygiene measures : Avoid prolonged and repeated contact with skin.

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Ignition sources, Incompatible materials. Keep container tightly closed.

Storage area : Store at ambient temperature. Provide for a tub to collect spills. Provide the tank with earthing. Meet the legal requirements.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: (strong) acids. (strong) bases.

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: carbon steel. MATERIAL TO AVOID: stainless steel. aluminium. iron. copper.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Ethyl 3-ethoxypropanoate (763-69-9)

USA - ACGIH® - Threshold Limit Values

ACGIH® TLV® TWA	50 ppm
ACGIH® TLV® STEL	100 ppm

8.2. Appropriate engineering controls

No additional information available

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8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Materials for protective clothing:
Good resistance: butyl rubber. Poor resistance: Natural rubber. neoprene (chloroprene rubber). Nitrile rubber. Viton
Hand protection:
Gloves
Eye protection:
Face shield (EN 166)
Skin and body protection:
Protective clothing (EN 14605 or EN 13034)
Respiratory protection:
Full face mask with filter type A at conc. in air > exposure limit

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: Fruity
Odor threshold	: 0.02 ppm
pH	: No data available
Melting point	: -50 °C (1013 hPa)
Freezing point	: < -49.99 °C ; -57.98 °F at 1,013 hPa (760 mmHg)
Boiling point	: 166 °F ; 331 °F - lit.
Flash point	: 58 °C ; 136 °F
Relative evaporation rate (butyl acetate=1)	: 0.1
Flammability (solid, gas)	: No data available
Vapor pressure	: 0.23 kPa ; 1.73 mmHg at 20 °C (68 °F)
Relative vapor density at 20°C	: 5.03
Relative density	: 0.949 (20 °C)
Density	: 0.95 g/cm ³ (at 20 °C)
Molecular mass	: 146.18 g/mol
Solubility	: Moderately soluble in water. Water: 5.41 g/100ml (20 °C, OECD 105: Water Solubility)
Partition coefficient n-octanol/water (Log Pow)	: 1.35
Auto-ignition temperature	: 377 °C ; 711 °F at 1,013 hPa (760 mmHg)
Decomposition temperature	: No exotherm to 400°C
Viscosity, kinematic	: 1.328 mm ² /s (20 °C)
Viscosity, dynamic	: 1.2 mPa·s (25 °C)

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Explosion limits	: 1.05 – 9.8 vol % Lower explosion limit: 1.05 vol % Upper explosion limit: 9.8 vol %
Particle characteristics	: Particle size : Not applicable (liquid)

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

VOC content	: 100 %
Surface tension	: 66 mN/m (20 °C, 1.1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Other properties	: Gas/vapour heavier than air at 20°C. Clear. Slightly volatile.

SECTION 10 Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Ethyl 3-ethoxypropanoate (763-69-9)	
LD50 oral rat	5 g/kg
LD50 dermal rabbit	> 9500 mg/kg
LC50 Inhalation - Rat	> 5.96 mg/l (Exposure time: 6 h)
ATE US (oral)	5000 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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STOT-repeated exposure : Not classified

Ethyl 3-ethoxypropanoate (763-69-9)	
NOAEL (oral, rat, 90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified

Ethyl 3-ethoxypropanoate (763-69-9)	
Viscosity, kinematic	1.328 mm ² /s (20 °C)

Potential Adverse human health effects and symptoms : Practically non-toxic if swallowed (LD50 oral, rat > 2000 mg/kg). Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Repeated exposure may cause skin dryness or cracking. Slightly harmful by inhalation. Caution! Substance is absorbed through the skin.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Nausea. Headache.

Symptoms/effects after skin contact : ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin. Red skin. Swelling of the skin.

Symptoms/effects after eye contact : Irritation of the eye tissue. Redness of the eye tissue.

Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Gastrointestinal complaints.

Chronic symptoms : No effects known.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

Ecology - air : Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573). Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590).

Ecology - water : Slightly harmful to crustacea. Slightly harmful to fishes. Fouling to shoreline.

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

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

Ethyl 3-ethoxypropanoate (763-69-9)	
LC50 - Fish [1]	62 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	970 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	149.83 mg/l (96 h, Lepomis macrochirus, QSAR)
EC50 - Crustacea [2]	785 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 114.86 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

Ethyl 3-ethoxypropanoate (763-69-9)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

Ethyl 3-ethoxypropanoate (763-69-9)	
Partition coefficient n-octanol/water (Log Pow)	1.35

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Ethyl 3-ethoxypropanoate (763-69-9)

Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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12.4. Mobility in soil

Ethyl 3-ethoxypropanoate (763-69-9)

Surface tension	66 mN/m (20 °C, 1.1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No
Other information : Avoid release to the environment.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Remove to an authorized incinerator with energy recovery.
Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
Ecological waste information : Avoid release to the environment.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

UN-No. (DOT) : UN3272
UN-No. (IMDG) : 3272
UN-No. (IATA) : 3272

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Esters, n.o.s. 3-Ethoxypropionic acid ethyl ester
Proper Shipping Name (IMDG) : esters, n.o.s.
Proper Shipping Name (IATA) : esters, n.o.s.
Transport document description (DOT) : UN3272 Esters, n.o.s. 3-Ethoxypropionic acid ethyl ester, 3, III
Transport document description (IMDG) : UN 3272 esters, n.o.s., 3, III
Transport document description (IATA) : UN 3272 esters, n.o.s., 3, III

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : 3
Hazard labels (DOT) : 3



IMDG
Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3

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IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



14.4. Packing group

Packing group (DOT) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN3272

DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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IMDG

Transport regulations (IMDG) : Subject to the provisions
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

IATA

Transport regulations (IATA) : Subject to the provisions

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Ethyl 3-ethoxypropanoate (763-69-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Ethyl 3-ethoxypropanoate (763-69-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Ethyl 3-ethoxypropanoate (763-69-9)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 2/5/2026
Other information : None.

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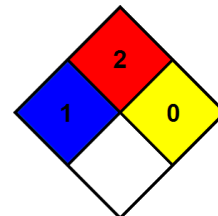
according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Full text of hazard classes and H-statements	
H226	Flammable liquid and vapor

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Safety Data Sheet (SDS), USA

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