

SAFETY DATA SHEET

Creation Date 24-Jun-2008

Revision Date 18-Dec-2025

Revision Number 6

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

1. Identification

| | |
|-----------------------------|--|
| Product Name | Ethanol, CDA 19 |
| Cat No. : | A406P4, A40620, A406F1GAL |
| Synonyms | Completely Denatured Alcohol, Government Formula 19; CD-19 190 Alcohol (denatured with |
| Recommended Use | Laboratory chemicals. |
| Uses advised against | Food, drug, pesticide or biocidal product use. |

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

Flammable liquids

Category 2

Label Elements

Signal Word

Danger

Hazard Statements

Highly flammable liquid and vapor

**Precautionary Statements****Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground and bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Wear protective gloves/protective clothing/eye protection/face protection

Take action to prevent static discharges

Use non-sparking tools

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

Fire

In case of fire: Use CO₂, dry chemical, or foam to extinguish

Storage

Store locked up

Store in a well-ventilated place. Keep cool

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

WARNING. Cancer and Reproductive Harm - <https://www.p65warnings.ca.gov/>.

3. Composition/information on Ingredients

| Component | CAS No | Weight % |
|-----------------------|-----------|----------|
| Ethyl alcohol | 64-17-5 | 92 - 93 |
| Methylisobutyl ketone | 108-10-1 | 3 - 4 |
| Water | 7732-18-5 | < 1.0 |
| Hexane | 110-54-3 | 0.8 |
| Toluene | 108-88-3 | 0.08 |

4. First-aid measures

General Advice

If symptoms persist, call a physician.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like

effects headache, dizziness, tiredness, nausea and vomiting
Notes to Physician Treat symptomatically

5. Fire-fighting measures

| | |
|---|--|
| Suitable Extinguishing Media | Dry chemical, CO ₂ , water spray or alcohol-resistant foam. Water mist may be used to cool closed containers. |
| Unsuitable Extinguishing Media | Water may be ineffective, Do not use a solid water stream as it may scatter and spread fire |
| Flash Point | 16.6 °C / 61.9 °F |
| Method - | No information available |
| Autoignition Temperature | 363 °C / 685.4 °F |
| Explosion Limits | |
| Upper | 19 vol % |
| Lower | 3.3 vol % |
| Sensitivity to Mechanical Impact | No information available |
| Sensitivity to Static Discharge | No information available |

Specific Hazards Arising from the Chemical

In the event of fire, cool tanks with water spray. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

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.

NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2 | 3 | 0 | N/A |

6. Accidental release measures

| | |
|---|---|
| Personal Precautions | Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| Environmental Precautions | Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. |
| Methods for Containment and Clean Up | Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. |

7. Handling and Storage

| | |
|-----------------|---|
| Handling | Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges. |
| Storage. | Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammables area. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Peroxides. Acids. Acid anhydrides. Acid chlorides. |

8. Exposure controls / personal protection

Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | NIOSH | Mexico OEL (TWA) |
|-----------------------|-----------------------------|--|---|-----------------------------|
| Ethyl alcohol | STEL: 1000 ppm | (Vacated) TWA: 1000 ppm (Vacated) TWA: 1900 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³ | IDLH: 3300 ppm REL = 1000 ppm (TWA) REL = 1900 mg/m ³ (TWA) | STEL: 1000 ppm |
| Methylisobutyl ketone | TWA: 20 ppm STEL: 75 ppm | (Vacated) TWA: 50 ppm (Vacated) TWA: 205 mg/m ³ (Vacated) STEL: 75 ppm (Vacated) STEL: 300 mg/m ³ TWA: 100 ppm TWA: 410 mg/m ³ | IDLH: 500 ppm REL = 50 ppm (TWA) REL = 205 mg/m ³ (TWA) STEL: 75 ppm STEL: 300 mg/m ³ | TWA: 20 ppm STEL: 75 ppm |
| Hexane | TWA: 50 ppm Skin | (Vacated) TWA: 50 ppm (Vacated) TWA: 180 mg/m ³ TWA: 500 ppm TWA: 1800 mg/m ³ | IDLH: 1100 ppm REL = 50 ppm (TWA) REL = 180 mg/m ³ (TWA) | TWA: 50 ppm |
| Toluene | TWA: 20 ppm | (Vacated) TWA: 100 ppm (Vacated) TWA: 375 mg/m ³ Ceiling: 300 ppm (Vacated) STEL: 150 ppm (Vacated) STEL: 560 mg/m ³ TWA: 200 ppm | IDLH: 500 ppm REL = 100 ppm (TWA) REL = 375 mg/m ³ (TWA) STEL: 150 ppm STEL: 560 mg/m ³ | TWA: 20 ppm |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use spark-proof tools and explosion-proof equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type:

Organic gases and vapours filter. Type A. Brown. conforming to EN14387.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical State

Liquid

Color

Clear

Odor

Alcohol-like

Odor Threshold

No information available

Property

Values

Remarks

Method

Melting Point/Range

< -85 °C / -121 °F

| | | |
|--|---|--|
| Softening Point | No data available | |
| Boiling Point/Range | 79 °C / 174.2 °F | @ 760 mmHg |
| Flash Point | 16.6 °C / 61.9 °F | Method - No information available |
| Flammability (liquid) | Highly flammable | On basis of test data |
| Flammability (solid,gas) | Not applicable | Liquid |
| Explosion Limits | No data available | |
| Autoignition Temperature | 363 °C / 685.4 °F | |
| Decomposition Temperature | No data available | |
| pH | No information available | |
| Viscosity | No data available | |
| Water Solubility | Soluble | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/water) | | |
| Component | log Pow | |
| Ethyl alcohol | -0.32 | |
| Methylisobutyl ketone | 1.9 | |
| Hexane | 4.11 | |
| Toluene | 2.73 | |
| Vapor Pressure | 50 mmHg @ 20 °C | |
| Density / Specific Gravity | 0.813 | |
| Bulk Density | Not applicable | Liquid |
| Vapor Density | 1.6 (Air = 1.0) | (Air = 1.0) |
| Particle characteristics | Not applicable (liquid) | |
| Other Information | | |
| Explosive Properties | Vapors may form explosive mixtures with air | |
| Evaporation Rate | 3.8 (Butyl Acetate = 1.0) | |

10. Stability and reactivity

| | |
|---|--|
| Reactive Hazard | None known, based on information available |
| Stability | Stable under normal conditions. |
| Conditions to Avoid | Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. |
| Incompatible Materials | Strong oxidizing agents, Peroxides, Acids, Acid anhydrides, Acid chlorides |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO ₂) |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions | None under normal processing. |

11. Toxicological information

Information on expected route of exposure

| | |
|-------------------|--|
| Inhalation | Irritating to respiratory system. May be harmful if inhaled. INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. May cause drowsiness and dizziness. |
| Ingestion | May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects. |
| Eyes | Severely irritating to eyes. |
| Skin | May cause irritation. May be harmful in contact with skin. |

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------|-----------|-------------|-----------------|
| | | | |

| | | | |
|-----------------------|---------------------------|-------------------------------|----------------------------------|
| Ethyl alcohol | LD50 = 7060 mg/kg (Rat) | - | 20000 ppm/10H (Rat) |
| Methylisobutyl ketone | LD50 = 2080 mg/kg (Rat) | LD50 = 3000 mg/kg (Rabbit) | LC50 2000 - 4000 ppm (Rat) 4 h |
| Water | - | - | - |
| Hexane | LD50 = 25 g/kg (Rat) | LD50 = 3000 mg/kg (Rabbit) | LC50 = 48000 ppm (Rat) 4 h |
| Toluene | > 5000 mg/kg (Rat) | LD50 = 12000 mg/kg (Rabbit) | 26700 ppm (Rat) 1 h |

Toxicologically Synergistic Products No information available

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;
Respiratory No data available
Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity;

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|-----------------------|-----------|------------|------------|------------|------------|------------|
| Ethyl alcohol | 64-17-5 | Not listed | Known | A3 | Not listed | A3 |
| Methylisobutyl ketone | 108-10-1 | Group 2B | Not listed | A3 | X | A3 |
| Water | 7732-18-5 | Not listed |
| Hexane | 110-54-3 | Not listed |
| Toluene | 108-88-3 | Not listed |

IARC (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

ACGIH: (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

(g) reproductive toxicity; No data available

| Component | Test method | Test species / Duration | Study result |
|---|-------------------------|-------------------------|---------------------|
| Methylisobutyl ketone 108-10-1 (3 - 4) | OECD Test Guideline 414 | Rat Inhalation | NOAEL = 4.1 mg/l |

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Other Adverse Effects The toxicological properties have not been fully investigated.

Endocrine Disrupting Properties This product does not contain any known or suspected endocrine disruptors.

12. Ecological information

Ecotoxicity

Contains a substance which is: Toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|-----------------------|--|--|---|--|
| Ethyl alcohol | EC50 (72h) = 275 mg/l (Chlorella vulgaris) | Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h | Photobacterium phosphoreum: EC50 = 34634 mg/L/30 min Photobacterium phosphoreum: EC50 = 35470 mg/L/5 min | EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h |
| Methylisobutyl ketone | EC50: 400 mg/L/96h | LC50: 496 - 514 mg/L, 96h flow-through (Pimephales promelas) | EC50 = 79.6 mg/L 5 min | EC50: 4280.0 mg/L/24h EC50: 170 mg/L/48h EC50: 4280.0 mg/L/24h |
| Hexane | Not listed | LC50: 2.1 - 2.98 mg/L, 96h flow-through (Pimephales promelas) | Not listed | EC50: 3.87 mg/L/48h |
| Toluene | EC50: = 12.5 mg/L, 72h static (Pseudokirchneriella subcapitata) EC50: > 433 mg/L, 96h (Pseudokirchneriella subcapitata) | 50-70 mg/L LC50 96 h 5-7 mg/L LC50 96 h 15-19 mg/L LC50 96 h 28 mg/L LC50 96 h 12 mg/L LC50 96 h | EC50 = 19.7 mg/L 30 min | EC50: = 11.5 mg/L, 48h (Daphnia magna) EC50: 5.46 - 9.83 mg/L, 48h Static (Daphnia magna) |

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

| Component | log Pow |
|-----------------------|---------|
| Ethyl alcohol | -0.32 |
| Methylisobutyl ketone | 1.9 |
| Hexane | 4.11 |
| Toluene | 2.73 |

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| Component | RCRA - U Series Wastes | RCRA - P Series Wastes |
|----------------------------------|------------------------|------------------------|
| Methylisobutyl ketone - 108-10-1 | U161 | - |
| Toluene - 108-88-3 | U220 | - |

14. Transport information

DOT

UN-No UN1170
 Proper Shipping Name Ethanol solution
 Hazard Class 3
 Packing Group II

TDG

UN-No UN1170
 Proper Shipping Name Ethanol solution
 Hazard Class 3
 Packing Group II

IATA

UN-No UN1170
 Proper Shipping Name Ethanol solution
 Hazard Class 3
 Packing Group II

IMDG/IMO

UN-No UN1170
 Proper Shipping Name Ethanol solution
 Hazard Class 3
 Packing Group II

15. Regulatory Information

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|-----------------------|-----------|------|---|-----------------------------|
| Ethyl alcohol | 64-17-5 | X | ACTIVE | - |
| Methylisobutyl ketone | 108-10-1 | X | ACTIVE | - |
| Water | 7732-18-5 | X | ACTIVE | - |
| Hexane | 110-54-3 | X | ACTIVE | - |
| Toluene | 108-88-3 | X | ACTIVE | - |

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|-----------------------|-----------|-----|-----|-----------|-------|------|------|------|-------|----------|
| Ethyl alcohol | 64-17-5 | X | - | 200-578-6 | X | X | X | X | X | KE-13217 |
| Methylisobutyl ketone | 108-10-1 | X | - | 203-550-1 | X | X | X | X | X | KE-24725 |
| Water | 7732-18-5 | X | - | 231-791-2 | X | X | | X | X | KE-35400 |
| Hexane | 110-54-3 | X | - | 203-777-6 | X | X | X | X | X | KE-18626 |
| Toluene | 108-88-3 | X | - | 203-625-9 | X | X | X | X | X | KE-33936 |

KECL - NIER number or KE number (<http://ncis.nier.gov.kr/en/main.do>)

U.S. 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.

| Component | CAS No | Weight % | SARA 313 - Threshold Values % | SARA 313 - Reporting thresholds |
|-----------------------|----------|----------|-------------------------------|---------------------------------|
| Methylisobutyl ketone | 108-10-1 | 3 - 4 | 0.1 % | - |
| Hexane | 110-54-3 | 0.8 | 1.0 % | - |
| Toluene | 108-88-3 | 0.08 | 1.0 % | - |

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

| Component | CWA - Hazardous Substances | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|-----------|----------------------------|-----------------------------|------------------------|---------------------------|
| Toluene | X | 1000 lb | X | X |

Clean Air Act

| Component | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|-----------------------|-----------|-------------------------|-------------------------|
| Methylisobutyl ketone | X | | - |
| Hexane | X | | - |
| Toluene | X | | - |

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

| Component | Hazardous Substances RQs | CERCLA Extremely Hazardous Substances RQs | SARA Reportable Quantity (RQ) |
|-----------------------|--------------------------|---|-------------------------------|
| Methylisobutyl ketone | 5000 lb | - | 5000 lb 2270 kg |
| Hexane | 5000 lb | - | 5000 lb 2270 kg |
| Toluene | 1000 lb | - | 1000 lb 454 kg |

California Proposition 65

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

| Component | CAS No | California Prop. 65 | Prop 65 NSRL | Category |
|-----------------------|----------|--|--------------|--------------------------|
| Ethyl alcohol | 64-17-5 | Development (alcoholic beverages only) | - | Developmental Carcinogen |
| Methylisobutyl ketone | 108-10-1 | Carcinogen Developmental | - | Developmental Carcinogen |
| Hexane | 110-54-3 | Male Reproductive | - | Developmental |
| Toluene | 108-88-3 | Developmental | - | Developmental |

U.S. State Right-to-Know Regulations

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-----------------------|---------------|------------|--------------|----------|--------------|
| Ethyl alcohol | X | X | X | X | X |
| Methylisobutyl ketone | X | X | X | X | X |
| Water | - | - | X | - | - |

| | | | | | |
|---------|---|---|---|---|---|
| Hexane | X | X | X | X | X |
| Toluene | X | X | X | X | X |

U.S. Department of Transportation

Reportable Quantity (RQ): Y

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-----------------------|-----------|---|--|---|
| Ethyl alcohol | 64-17-5 | - | - | - |
| Methylisobutyl ketone | 108-10-1 | - | Use restricted. See entry 75. (see link for restriction details) | - |
| Water | 7732-18-5 | - | - | - |
| Hexane | 110-54-3 | - | Use restricted. See entry 75. (see link for restriction details) | - |
| Toluene | 108-88-3 | - | Use restricted. See entry 48. (see link for restriction details) Use restricted. See entry 75. (see link for restriction details) | - |

REACH links

<https://echa.europa.eu/substances-restricted-under-reach>

Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|-----------------------|-----------|----------|------------------------------|---------------------------|--|
| Ethyl alcohol | 64-17-5 | Listed | Not applicable | Not applicable | Not applicable |
| Methylisobutyl ketone | 108-10-1 | Listed | Not applicable | Not applicable | Not applicable |
| Water | 7732-18-5 | Listed | Not applicable | Not applicable | Not applicable |
| Hexane | 110-54-3 | Listed | Not applicable | Not applicable | Not applicable |
| Toluene | 108-88-3 | Listed | Not applicable | Not applicable | Not applicable |

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

See table for values

PFAS Legend

Listed = Meets the PFAS definition of the named authority

Other International Regulations

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|-----------------------|-----------|---|--|----------------------------|------------------------------------|
| Ethyl alcohol | 64-17-5 | Not applicable | Not applicable | Not applicable | Annex I - Y42 |
| Methylisobutyl ketone | 108-10-1 | Not applicable | Not applicable | Not applicable | Annex I - Y42 |
| Water | 7732-18-5 | Not applicable | Not applicable | Not applicable | Not applicable |
| Hexane | 110-54-3 | Not applicable | Not applicable | Not applicable | Annex I - Y42 |
| Toluene | 108-88-3 | Not applicable | Not applicable | Not applicable | Annex I - Y42 |

16. Other Information

| | |
|-------------------------|---|
| Prepared By | Product stewardship (Regulatory Affairs) Thermo Fisher Scientific email - begel.sdsdesk@thermofisher.com |
| Creation Date | 24-Jun-2008 |
| Revision Date | 18-Dec-2025 |
| Print Date | 18-Dec-2025 |
| Revision Summary | Updated to the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200, 2024), May 20, 2024, effective July 19, 2024. |

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS