

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product

Product name: Odorless Mineral Spirit
Synonymus: Isoparaffins; Isoalkanes; Aliphatic hydrocarbon
CAS: 68551-16-6

1.2 Intended Use: Solvents, petrochemical industry, petroleum refining

1.3 COMPANY:

COMPANY NAME: **FORTEQUIM S. A. DE C. V.**
ADDRESS: San Miguel Km. 5, Col. Hacienda Española
Guadalupe Nuevo León, PC 67110
Web site: www.fortequim.com.mx
Phone Number: 81311400

**1.4 Emergency Contact: 24 Hour Emergency Contact CHEMTREC Mexico : 01-800-681-9531,
International: 703-527-3887
SETIQ MEXICO: 0180000214/015555591588**

2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 2
Acute Toxicity: Oral, Category 3
Acute Toxicity: Skin, Category 3
Acute Toxicity: Inhalation, Category 3
Serious Eye Damage/Eye Irritation, Category 2
Toxic To Reproduction, Category 2
Specific Target Organ Toxicity (single exposure), Category 1
Specific Target Organ Toxicity (repeated exposure), Category 2
Aspiration Toxicity, Category 1



GHS Signal Word
GHS Hazard Phrases:

Danger:
H225: Highly flammable liquid and vapor.
H301: Toxic if swallowed.
H304: May be fatal if swallowed and enters airways.
H311: Toxic in contact with skin.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H361: Suspected of damaging fertility or the unborn child.
H370: Causes damage to organs.
H373: May cause damage to organs through prolonged or repeated exposure

GHS Precaution Phrases:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required.
P235: Keep cool.

GHS Response Phrases:

P301+310: IF SWALLOWED: Immediately P311: Call a POISON CENTER or doctor/physician.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P303+361+353: IF ON SKIN (or hair): P361: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307+311: IF exposed: P311: Call a POISON CENTER or doctor/physician.
P308+313: IF exposed or concerned: Get medical attention/advice.
P314: Get medical attention/advice if you feel unwell.
P321: Specific treatment see label.

GHS Storage and Disposal Phrases

P330: Rinse mouth.
P331: Do NOT induce vomiting.
P337+313: If eye irritation persists, get medical advice/attention.
P363: Wash contaminated clothing before reuse.
P370+378: In case of fire, use dry chemical powder to extinguish

P403+233: Store container tightly closed in well-ventilated place.
P405: Store locked up.
P501: Dispose of contents/container according to local, state and federal regulations.

**OSHA Regulatory Status:
Potential Health Effects
(Acute and Chronic):**

This material is classified as hazardous under OSHA regulations.

Inhalation Acute Exposure Effects:
Vapor harmful. May cause dizziness; headache; watering of eyes; irritation of respiratory tract; weakness; drowsiness; nausea; numbness in fingers, arms and legs; depression of central nervous system; loss of appetite; fatigue; hallucinations; light headedness; visual disturbances; giddiness and intoxication; sleepiness; cough and dyspnea; cold, clammy extremities; diarrhea; vomiting; dilation of pupils; spotted vision. Severe overexposure may cause convulsions; unconsciousness; coma; and death. Intentional misuse of this product by deliberately concentrating and inhaling can be harmful or fatal.

Skin Contact Acute Exposure Effects:
May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Eye Contact Acute Exposure Effects:
This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes.

Ingestion Acute Exposure Effects:
Poison. Cannot be made non-poisonous. May be fatal or cause blindness. May cause dizziness; headache; nausea; vomiting; burning sensation in mouth, throat, and stomach; loss of coordination; depression of the central nervous system; narcosis; stupor; gastrointestinal irritation; liver, kidney, and heart damage; diarrhea; loss of appetite; coma and death. May produce symptoms listed under inhalation.

Chronic Exposure Effects:
Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged or repeated contact may cause dermatitis. Prolonged skin contact may result in absorption of a harmful amount of this material. May cause conjunctivitis; gastric disturbances; insomnia; dizziness; headache; weakness; fatigue; nausea; heart palpitations; skin irritation; numbness in hands and feet; permanent central nervous system changes; some loss of memory; pancreatic damage; giddiness; visual impairment or blindness; kidney or liver damage; and death. May cause symptoms listed under inhalation.

Target Organs: Central Nervous System, Liver, Kidney, Heart, Stomach, Respiratory System
Primary Routes of Entry: Inhalation, Ingestion, Skin Absorption

Medical Conditions Generally Aggravated By Exposure:

Diseases of the skin, eyes, liver, kidneys, central nervous system and respiratory system

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components (Chemical Name)	Concentration	CAS #
C9- C11 Isoalkanes	100%	68551-16-6

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Skin:
Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:
Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:
If swallowed, do not induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

In Case of Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

In Case of Skin Contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In Case of Ingestion:

If swallowed, do NOT induce vomiting. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person

Note to Physician:

Poison. This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis. Call your local poison control center for further information

5	FIRE FIGHTING MEASURES
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Flash Pt: Explosive Limits: Autoignition Pt: Suitable Extinguishing Media: Unsuitable Extinguishing Media: Fire Fighting Instructions:	NFPA Class IB < 15.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash) LEL: 1 UEL: 7 No data. Use carbon dioxide, dry powder, or foam. Do not use a solid water stream, as this may spread the fire
Flammable Properties and Hazards:	Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame. No data available

6	ACCIDENTAL RELEASE MEASURES
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Steps To Be Taken In Case Material Is Released Or Spilled:	Vapors may cause flash fire or ignite explosively. Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc. Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable. Large spills: Dike far ahead of spill for later disposal. Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.
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7	HANDLING AND STORAGE
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Precautions To Be Taken in Handling:	Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited. Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.
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Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.
Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.
Do not spread this product over large surface areas because fire and health safety risks will increase dramatically.

Precautions To Be Taken in Storing:

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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CAS #	Partial Chemical Name	ACGIH TWA
68551-16-6	C9 - C11 Isoalkanes	200 ppm

Respiratory Equipment (Specify Type):

For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV
For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

**Eye Protection:
Protective Gloves:**

Protect eyes with chemical splash goggles.
Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile rubber may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing:

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

Engineering Controls (Ventilation etc.):

Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering - Stop - ventilation is inadequate. Leave area immediately

Work/Hygienic/Maintenance Practices:

Do not use in small enclosed spaces, such as basements and bathrooms.
A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area.

Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid
Melting Point:	NDA.
Boiling Point:	178-188 °C (370.4 °F)
Autoignition Pt:	336 °C (636.8 °F)
Flash Pt:	48 °C (118.4 °F) (Tag Closed Up)
Explosive Limits:	NDA
Specific Gravity (Water = 1):	0.758 @ 15.6 ºC (60°F)
Density:	6.31 lb/gal @ ºC (60°F)
Appearance and Odor:	Water White / Free and Clear
Vapor Pressure (vs. Air or mm Hg):	NDA
Vapor Density (vs. Air = 1):	>3
Evaporation Rate:	> 1
Solubility in Water:	Slight
Percent Volatile: 1	00.0 % by weight.
VOC / Volume:	600.0000 G/L
Viscosity	1.12 cSt @ 38 ºC (100°F)

10 STABILITY AND REACTIVITY

Stability:	Unstable [] Stable [X]
Conditions To Avoid Instability:	No data available.
Incompatibility – Materials To Avoid:	Incompatible with strong oxidizing agents, strong caustics, hydrogen peroxide, and nitrates
Hazardous Decomposition or Byproducts:	Decomposition may produce carbon monoxide; carbon dioxide
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid Hazardous Reactions:	No data available

11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

- Acute Oral Toxicity:** LD50 / rat / 34.6 g/kg
- Acute Dermal Toxicity:** LD50 / rabbit / 15.4 g/kg
- Acute Inhalation Toxicity:** LC50 / rat / > 1215 ppm / 6 hour(s)
- Eye Irritation:** This material is not expected to be irritating to the eyes.

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Skin Irritation: May cause skin irritation.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains C9-C11 ISOALKANES:
Repeated Dose Toxicity: 12weeks / inhalation / rat / doses: 0, 314 or 922ppm / 6hr/day, 5days/week / NOAEL > 922ppm (male rat nephropathy)
Reproductive and Developmental Toxicity: GD 6-15 / inhalation / rat / Doses: 0, 292, or 817ppm / 6hrs/day / NOAEL > 817ppm (for maternal and developmental toxicity)
Genetic Toxicity: E. coli Bacterial Reverse mutation assay - negative; Ames test - negative; Bacterial DNA repair test - negative; Mouse micronucleus - negative; Dominant lethal assay - negative

12 ECOLOGICAL INFORMATION

ECOTOXICITY:
This material is not expected to be harmful to aquatic organisms.
- 48 hour(s) / LLO / water flea (*Daphnia magna*) / 1000 mg/l
- 96 hour(s) / ELO / Rainbow trout (*Salmo gairdneri*) / 1000 mg/l

ENVIRONMENTAL FATE:
Biodegradability: 28 day(s) / 69.8 %
This material is expected to be readily biodegradable.

13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

14 TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition). Consult the appropriate domestic or international mode- specific and quantity- specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.
Shipping Descriptions per regulatory authority.

US DOT
UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

ICAO / IATA
UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

IMO / IMDG

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UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III , (48°C)

RID / ADR

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

SECCIÓN 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

- 1. Immediate (Acute) Health Effects: YES
- 2. Delayed (Chronic) Health Effects: NO
- 3. Fire Hazard: YES
- 4. Sudden Release of Pressure Hazard: NO
- 5. Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

- 01= CA Prop 65 17 = FDA 178 33 = -
- 02 = LA RTK 18 = FDA 179 34 = -
- 03 = MA RTK 19 = FDA 180 35 = -
- 04 =MN Hazardous Substance 20 = FDA 181 36 = -
- 05 =NJ RTK 21 = FDA 182 37 = SARA Section 302
- 06 = PA RTK 22 = FDA 184 38 = SARA Section 313
- 07 = - 23 = FDA 186 39 = TSCA 12 (b)
- 08 = - 24 = FDA 189 40 = TSCA Section 4
- 09 = CWA Section 311 25 = IARC Group 1 41 = TSCA Section 5(a)
- 10 =DOT Marine Pollutant 26 = IARC Group 2A 42 = TSCA Section 8(a) CAIR
- 11 = FDA 172 27 = IARC Group 2B 43 = TSCA Section 8(a) PAIR
- 12 = FDA 173 28 = IARC Group 3 44 = TSCA Section 8(d)
- 13 = FDA 174 29 = IARC Group 4 45 = WHIMS - IDL
- 14 = FDA 175 30 = NTP Carcinogen 46 = Germany D TAL
- 15 = FDA 176 31 = OSHA Carcinogen 47 = Germany WKG
- 16 = FDA 177 32 = OSHA Highly Hazardous 48 = DEA List 1
- 49 = DEA List 2

WHMIS CLASSIFICATION:

Class B, Division 3: Combustible Liquids

CHEMICAL INVENTORY LISTINGS:

AUSTRALIA	YES (AUS)
CANADA	YES (DSL)
CHINA	YES (IECSC)
EUROPEAN UNION	YES (EINECS)
JAPAN	YES (ENCS)
KOREA	YES (ECL)
PHILIPPINES	YES (PICCS)
UNITED STATES	YES (TSCA)

EU LABELING:

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Symbols:

Xn - Harmful

Risk and Safety Phrases:

R66: Repeated exposure may cause skin dryness or cracking.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapors may cause drowsiness and dizziness.

S62: If swallowed do not induce vomiting; seek medical advice immediately and show this container or label.

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OTHER INFORMATION

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.