

OSHA Hazard Communication Standard 29 CFR 1900.1200
Prepared to GHS Rev. 4



**SAFETY
DATA SHEET**

SECTION 1- CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: 3416 Thinner

Product Use: Paint & Coating Thinners

Use Restrictions: For Industrial and Professional Use Only

Manufacturer: Southeastern Chemical Industries Group LLC
660 Oak Place
Port Orange, FL 32127
386-760-9332

Transportation Emergency: 800-535-5053 (INFOTRAC)

SECTION 2- HAZARDS IDENTIFICATION

1) GHS Classification of the substance or mixture:

- Acute toxicity, Inhalation- Category 3
- Acute toxicity, Dermal- Category 3
- Acute toxicity, Oral- Category 3
- Acute toxicity, Eye- Category 2
- Flammable Liquids- Category 2
- Specific target organ toxicity- single exposure- Category 3 (Central Nervous System)

2) Label Elements:



Signal Word: Danger

Hazard Statements:

- H225- Highly flammable liquid and vapor
- H301+H311+H331- Toxic if swallowed, in contact with skin or if inhaled
- H315- Causes skin irritation
- H370- Causes damage to organs

Precautionary Statements:

- P102- Keep out of reach of children
- P210- Keep away from heat/sparks/open flame
- P233+P234- Keep only in original container and keep container tightly closed

P241+P242+P243- Use explosion proof electrical/ventilating/lighting equipment. Use only non sparking tools. Take precautionary measures against static discharge.

P260- Do not breathe fume/mist/vapors/spray

P262- Do not get in eyes, on skin, or on clothing

P264- Wash skin thoroughly after handling

P280- Wear solvent resistant protective gloves and splash proof eyewear

P307+P311- If exposed: call POISON CENTER or doctor/physician

Response Statements:

P303+P353+P361+P363- IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do so. Continue Rinsing.

P304+P340+ IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P310- IF SWALLOWED: Immediately call POISON CENTER or doctor/physician.

Storage and Disposal Statements:

P233+P235+P403- Keep container tightly closed, keep cool and store in a well-ventilated place.

P405- Store locked up.

P501- Dispose of contents/container in accordance with local/regional/national regulation.

Other Hazards:

OSHA HCS 2012- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

HMIS Classification:

Health Hazard- 2

Chronic Health Hazard- 0

Flammability- 3

Physical Hazards- 0

NFPA Classification

Health Hazard - 1

Flammability - 3

Reactivity - 0

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Chemical/Common Name</u> | <u>CAS #</u> | <u>PERCENTAGE</u> | <u>HAZARDOUS</u> |
|-----------------------------|--------------|-------------------|------------------|
| Methyl Alcohol | 67-56-1 | 40-45% | Yes |
| Acetone | 67-64-1 | 15-20% | Yes |
| Toluene | 108-88-3 | 18-20% | Yes |
| Heptane | 142-82-5 | 15-20% | Yes |

SECTION 4- FIRST AID MEASURES

Inhalation: If affected, remove individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet and obtain medical attention.

Skin: Immediately flush affected area with lots of water for at least 2 minutes. Remove contaminated clothing and wash before reuse.

Eyes: Flush immediately with large quantities of running water for at least 5 minutes. Obtain medical attention.

Ingestion: Immediately rinse mouth with a lot of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SECTION 5-FIRE FIGHTING MEASURES

Flash Point: 20°F (T.C.C.)

Autoignition Temperature: Approximately 400° F

Lower Explosive Limit: N/D

Upper Explosive Limit: N/D

General Hazards-

Fire: Product is flammable or combustible in presence of ignition source.

Suitable Extinguishing Media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Treat as Class 1B (flammable liquid) fire.

Fire Fighting Procedures: Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing vapors, mist or gas.

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Environmental precautions: Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up: Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to appropriate waste disposal container.

SECTION 7- HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes by wearing protective clothing and equipment. Avoid inhalation of vapor or mist. Use only with adequate ventilation.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place. Store away from acids, acidic materials and oxidizers. Do not store near heat or open flame.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

| Component | CAS # | ACGIH Exposure Limits | OSHA Exposure Limits |
|----------------|----------|-----------------------|----------------------|
| Methyl Alcohol | 67-56-1 | 200 ppm | 200 ppm |
| Acetone | 67-64-1 | 500 ppm | 250 ppm |
| Toluene | 108-88-3 | 20 ppm | 200 ppm |
| Heptane | 142-85-5 | 400 ppm | 500 ppm |

Personal Protective Equipment-

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Hand protection: Wear protective gloves made from the following materials- nitrile rubber or polyethylene. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Wear safety glasses with side shields.

Skin and Body Protection: Where extensive dermal exposure may be expected, either a chemical suit or chemical apron will be needed.

Hygienic Practices: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------------------------|
| Products Description: | Clear liquid with characteristic odor |
| Solubility in Water: | Disperses |
| Boiling Point: | 135°F |
| Specific Gravity (WATER=1): | 0.790 |
| Vapor Pressure (mmHg): | N/D |
| Vapor Density (AIR=1): | >1 |
| Evaporation Rate (BUTYL ACETATE=1): | >1 |

Flash Point (T.C.C.): 15°F
pH (1% w/w in water): N/A

SECTION 10- STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions.

Material to Avoid: Avoid contact with acids and strong oxidizers such as permanganate, chlorine, ect.

Conditions to Avoid: Keep away from heat, sparks and open flame.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: May form carbon dioxide, carbon monoxide and various hydrocarbons.

SECTION 11- TOXICOLOGICAL INFORMATION

Methyl Alcohol-

Acute oral toxicity- LD50 Oral: 143 mg/kg

Species: Human

Remarks: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute inhalation toxicity- LC50: 128.2 mg/l

Species: Rat

Acute dermal toxicity- LD50: 17,100 mg/kg

Species: Rabbit

Remarks: Skin, eye or respiratory sensitization: no irritation or sensitization detected.

Acetone-

Acute oral toxicity- LD50 Oral: 5,800 mg/kg

Species: Rat

Remarks: Tremors

Acute inhalation toxicity- LC50: 16,000 mg/l

Species: Rat

Exposure Time: 4 Hours

Acute dermal toxicity- LD50: 7,426 mg/kg

Species: Guinea Pig

Toluene-

Acute oral toxicity- LD50 Oral: >5,580 mg/kg

Species: Male Rat

Acute inhalation toxicity- LC50: 28.1 mg/l

Species: Male & Female Rat

Remarks: Vapors may cause irritation to eyes and respiratory system.

Acute dermal toxicity- LD50: >5,000 mg/kg

Species: Rabbit

Remarks: May cause skin irritation in susceptible persons.

Heptane

Acute oral toxicity: LD50: >5,000 mg/kg

Species: rat

Method: OECD Test Guideline 401

Information given is based on data obtained from similar substances.

Acute inhalation toxicity: LC50: >29.29 mg/l

Exposure time: 4 h

Species: rat (male and female)

Test atmosphere: vapor

Method: OECD Test Guideline 403

Acute dermal toxicity: LD50: >2,000 mg/kg

Species: rabbit (male and female)

Method: OECD Test Guideline 402

Information given is based on data obtained from similar substances.

Skin irritation: Irritating to skin. May cause skin irritation in susceptible persons.

Eye irritation: Vapors may cause irritation to the eyes, respiratory system, and the skin.

Sensitization: Did not cause sensitization on laboratory animals.

Information given is based on data obtained from similar substances.

Repeated dose toxicity:

Species: rat (male)

Application Route: Inhalation

Dose: 12.47 mg/l

Exposure time: 16 wk

Number of exposures: 12h/d, 7 d/wk

NOEL: 12.47 mg/l

No adverse effect has been observed in chronic toxicity tests.

Reproductive toxicity:

Species: rat

Application Route: Inhalation

Dose: 12.47 mg/l

Exposure time: 16 wk

Number of exposures: 6 h/d, 5d/wk

Test period: 13 wk

Method: OECD Test Guideline 416

NOAEL Parent: 9000 ppm

NOAEL F1: 3000 ppm

NOAEL F2: 3000 ppm

Developmental toxicity:

Species: rat

Application Route: Inhalation

Dose: 0, 900, 3000, 9000 ppm

Exposure time: GD6-15

Number of exposures: 6 h/d

NOAEL Teratogenicity: 9000 ppm

NOAEL Maternal: 3000 ppm

Aspiration toxicity: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

Further information: Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. Solvents may degrease the skin.

SECTION 12- ECOLOGICAL INFORMATION

Methyl Alcohol- CAS#67-56-1:

ECOTOXICITY-

Toxicity to fish: LC50 (Bluegill sunfish): 15,400 mg/l

Exposure Time: 96 Hours

Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates: EC50 (Water flea): >10,000mg/l

Exposure Time: 48 Hours

Test Type: static test

Toxicity to algae: EC50 (fresh water algae): 22,000 mg/l

Exposure Time: 96 Hours

Test Type: static test

Toxicity to bacteria: IC50 (activated sludge): >1,000 mg/l

Exposure Time: 3 Hours

Test Type: static test

PERSISTENCE AND DEGRADABILITY-

Biodegradability: aerobic

Result: readily biodegradable

Biodegradation: 72%

Remarks: Readily biodegradable

Biochemical Oxygen Demand (BOD): 600-1,120 mg/g

Chemical Oxygen Demand (COD): 1,429 mg/g

Stability in Water: Hydrolysis: 91% at 19°C (72 hours)

Remarks: Hydrolyses readily on contact with water.

BIOACCUMULATIVE POTENTIAL-

Bioaccumulation: Species- Carp

Bioconcentration factor (BCF): 1.0

Exposure Time: 72 days

Temperature: 20°C

Concentration: 5 mg/l

Remarks: This substance is not considered to be very persistent nor very bioaccumulating.

Partition coefficient: log Pow- -0.77

REGULATION/REMARKS-

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone, CAA Section 602 Class I Substances.

Remarks: 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).

Acetone- CAS#67-64-1:

ECOTOXICITY-

Toxicity to fish: LC50 (Rainbow Trout): 6,100 mg/l

Exposure Time: 48 Hours

Toxicity to daphnia and other aquatic invertebrates: EC50 (Water flea): 7,630mg/l

Exposure Time: 48 Hours

Toxicity to algae: No data available

Toxicity to bacteria: No data available

PERSISTENCE AND DEGRADABILITY-

Result: readily biodegradable

Toluene- CAS#108-88-3:

ECOTOXICITY-

Toxicity to fish: LC50 (Coho Salmon): 5.5 mg/l

Exposure Time: 96 Hours

Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates: EC50 (Ceriodaphnia dubia): 3.78 mg/l
Exposure Time: 48 Hours
Test Type: renewal

Toxicity to algae: EC50 (fresh water algae): 134 mg/l
Exposure Time: 3 Hours
Test Type: static test

Toxicity to bacteria: IC50 (bacteria): 84 mg/l
Exposure Time: 24 Hours
Test Type: static test

PERSISTENCE AND DEGRADABILITY-

Biodegradability: Inoculum- Sewage
Biodegradation: 100%
Remarks: Readily biodegradable

BIOACCUMULATIVE POTENTIAL-

Partition coefficient: log Pow- 2.73

REGULATION/REMARKS-

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone, CAA Section 602 Class I Substances.

Remarks: 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).

Heptane CAS No. 142-82-5

Toxicity to fish: LL50: 1.284 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (Rainbow Trout)
Method: QSAR

Toxicity to fish: LC50: 375 MG/L
Exposure time: 96 h
Species: Tilapia mosambica (Fish)

Toxicity to daphnia & other aquatic invertebrates: EC50: 1.5 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Static Test: Toxic to aquatic organisms

Toxicity to daphnia & other aquatic invertebrates: LC50: 0.1 mg/l
Exposure time: 96 h
Species: Mysidopsis bahia (mysid shrimp)
Semi-Static Test: Very Toxic to aquatic organisms

Toxicity to algae: EL50: 4.338 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata
Method: QSAR

Biodegradability: Result: Readily biodegradable, 70%
Test period: 10 d

Results of PBT assessment: Non-classified PBT substance, non-classified vPvB substance.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13- DISPOSAL CONSIDERATIONS

Further information: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations.

SECTION 14- TRANSPORT INFORMATION

Transport in accordance with all federal, state and local regulations.

DOT-

UN Number: UN 1263

UN proper shipping name: Paint related material (Acetone, Methanol, Heptane, Toluene)

Hazard class: 3

Packing group: II

SECTION 15- REGULATORY INFORMATION

OSHA Hazards: Flammable liquid, Target Organ Effect, Toxic by Inhalation, ingestion, and by skin absorption.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313-

| Product | CAS No. | Revision Date |
|----------|---------|---------------|
| Methanol | 67-56-1 | 2007-07-01 |

SARA 311/312 Hazards: Fire hazard, Acute health hazard, Chronic health hazard

Massachusetts Right to Know Components:

| Product | CAS No. | Revision Date |
|----------|----------|---------------|
| Methanol | 67-56-1 | 2007-07-01 |
| Acetone | 67-64-1 | |
| Toluene | 108-88-3 | |

Pennsylvania Right to Know Components:

| Product | CAS No. | Revision Date |
|----------|----------|---------------|
| Methanol | 67-56-1 | 2007-07-01 |
| Acetone | 67-64-1 | |
| Toluene | 108-88-3 | |
| Heptane | 142-82-5 | |

New Jersey Right to Know Components:

| Product | CAS No. | Revision Date |
|----------|----------|---------------|
| Methanol | 67-56-1 | 2007-07-01 |
| Acetone | 67-64-1 | |
| Toluene | 108-88-3 | |
| Heptane | 142-82-5 | |

California Prop. 65 Components: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16- OTHER INFORMATION

References: Not available

Other Special Considerations: Not available

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Last Updated: NEW

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