

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: SUR 860 Urethane Reducer
Product Use: Paint /Coating Solvent/Diluent
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 No.</u>	<u>PERCENTAGE</u>	<u>HAZARDOUS</u>
Methyl Isobutyl Ketone	108-10-1	15-20%	Yes
Acetone	67-64-1	15-20%	Yes
Toluene	108-88-3	18-20%	Yes
n-Butyl Acetate	123-86-4	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.)
Auto ignition 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.
Hazardous Combustion Products: Normal thermal hydrocarbon decomposition byproducts i.e. carbon oxides.

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 No.	ACGIH Exposure Limits	OSHA Exposure Limits
Methyl Isobutyl Ketone	108-10-1	75 ppm	100 ppm
Acetone	67-64-1	500 ppm	250 ppm
Toluene	108-88-3	20 ppm	200 ppm
n-Butyl Acetate	123-86-4	150 ppm	150 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):	0.701
Vapor Pressure (mmHg):	N/D
Vapor Density (AIR= 1) :	>1
Evaporation Rate (BUTYL ACETATE= 1) :	>1
Flash Point (T.C.C.):	20°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, etc.

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 Isobutyl Ketone CAS No. 108-10-1

Acute oral toxicity- LD50 (rat) 2,080 mg/kg

Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral toxicity.

Acute inhalation toxicity- LC50 (rat): 8.2 – 16.4 mg/l

Exposure time: 4 h

Test atmosphere: vapor

Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity- LD50 (rat male and female) : >1,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal toxicity.

Skin corrosion/irritation:

Remarks: May cause skin irritation in susceptible persons.

Species: rabbit

Exposure time: 4 h

Classification: No skin irritation

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation:

Remarks: May cause irreversible eye damage

Species: rabbit

Result: Irritating to eyes

Classification: Irritating to eyes

Method: OECD Test Guideline 405

GLP: yes

Respiratory or skin sensitization:

Test type: Maximization Test (GPMT)

Species: guinea pig

Assessment: Did not cause sensitization on laboratory animals

Method: OECD Test Guideline 406

Result: Did not cause sensitization on laboratory animals

Germ cell mutagenicity:

Geno toxicity in vitro:

Test type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Geno toxicity in vivo:

Test type: In vivo micronucleus test

Test species: mouse

Cell type: Bone marrow

Application route: Intraperitoneal

Exposure time: 12 – 48 h

Method: OECD Test Guideline 474

Result: negative

GLP: yes

Germ cell mutagenicity – Assessment: Test on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity:

Species: rat, (male and female)

Application route: inhalation (vapor)

Exposure time: 2 yrs.

Dose: 0, 450, 900, 1800 ppm

Frequency of treatment: 6 h/d, 5 d/w

NOAEL: 450 ppm

Method: OECD Test Guideline 451

Result: Evidence of renal carcinogenesis is not relevant to humans

GLP: yes

Carcinogenicity – Assessment: No evidence of carcinogenicity in animal studies

Reproductive toxicity:

Effects on fertility:

Test type: Two generation study

Species: rat (male and female)

Application route: inhalation (vapor)

Dose: 0, 500, 1000, 2000 ppm

Duration of Single Treatment: 6 h

Frequency of treatment: 7 d/w

General Toxicity: Parent: NOAEC: 1,000 ppm

General Toxicity: F1: NOAEC: 1,000 ppm

Fertility: NOAEC: 2,000 ppm

Symptoms: Maternal effects, sedation

Method: OECD Test Guideline 416

Result: Animal testing did not show any effects on fertility

Effects on fetal development:

Species: rat

Application route: inhalation (vapor)

Dose: 0, 300, 1000, 3000 ppm

Duration of Single Treatment: 10 d

Frequency of Treatment: 6 h/d

General Toxicity Maternal: NOAEC: 1,000 ppm

Teratogenicity: NOAEC: 3,000 ppm

Symptoms: Maternal toxicity, specific developmental abnormalities, reduced body weight, reduced number of viable fetuses.

Method: OECD Test Guideline 414

Result: No teratogenic effects

GLP: yes

Reproductive toxicity Assessment: No evidence of adverse effects on sexual function and fertility and on development, based on animal experiments.

Repeated dose toxicity:

Species: rat (male and female)

NOAEL: 250 mg/kg

Application route: Oral

Exposure time: 13 w

Number of Exposures: 7 d/w

Dose: 0, 50, 250, 1000 mg/kg bw/day

Method: OECD Test Guideline 408

GLP: yes

Symptoms: Kidney disorders

Remarks: male rat hydrocarbon nephropathy not relevant to humans.

Aspiration toxicity

No aspiration toxicity classification

Remarks: Solvents may degrease the skin

Acetone CAS No. 67-64-1

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 CAS No. 108-88-3

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.

n-Butyl Acetate CAS No. 123-86-4

Acute oral toxicity: LD50: 10,760 mg/kg

Species: rat

Method: OECD Test Guideline 423

GLP: no

Acute inhalation toxicity: LC50: >21 mg/l

Exposure time: 4 h

Species: rat (male and female)

Test atmosphere: vapor

Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity: LD50: >14,112 mg/kg

Species: rabbit (male and female)

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation:

Species: rabbit

Classification: Not irritating to skin

Method: OECD Test Guideline 404

Result: Not irritating to skin

GLP: no

Serious eye damage/eye irritation:

Species: rabbit

Classification: Not irritating to eyes

GLP: yes

Respiratory or skin sensitization:

Species: guinea pig

Results: Did not cause sensitization on laboratory animals

Germ cell mutagenicity:

Geno toxicity in vitro:

Test type: Chromosome aberration test in vitro

Test species: Chinese hamster lung fibroblasts

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: No data available

Geno toxicity in vivo:

Test type: In vivo micronucleus test

Test species: mouse (male and female)

Application route: Oral

Dose: 500, 1000, 2000 mg/kg bw

Method: OECD Test Guideline 474

Result: negative

GLP: yes

Test substance: Information given is based on data obtained from similar substances.

Germ cell mutagenicity – Assessment: Animal testing did not show mutagenic effects.

Carcinogenicity:

Carcinogenicity – Assessment: Contains no ingredient listed as a carcinogen

Reproductive toxicity:

Effects on fertility:

Species: rat (male and female)

Application route: inhalation

Dose: 0, 750, 1500, 2000 ppm

Duration of Single Treatment: 6 h

Frequency of treatment: 7 d/w

General Toxicity: Parent: NOAEC: 750 ppm

General Toxicity: F1: NOAEC: 750 ppm

Fertility: NOAEC: 2,000 ppm

Early embryonic development: NOAEC: 750 ppm

Symptoms: Effect on reproduction capacity

Method: OECD Test Guideline 416

GLP: yes

Effects on fetal development:

Species: rat (male and female)

Application route: inhalation (vapor)

Dose: 500, 1500, 3000 ppm

Duration of Single Treatment: 6 h

Frequency of Treatment: 5 d/w

Symptoms: Skeletal malformations

Result: Teratogenic effects

GLP: yes

Reproductive toxicity Assessment: No toxicity to reproduction. Animal testing did not show any effects on fetal development.

Repeated dose toxicity:

Species: rat (male and female)

NOAEL: 500

Application Route: Inhalation (vapor)

Exposure time: 13 w

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

Dose: 500, 1500, 3000 ppm

GLP: yes

Symptoms: oral or nasal discharge

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

SECTION 12- ECOLOGICAL INFORMATION

Methyl Isobutyl Ketone- CAS No. 108-10-1:

ECOTOXICITY-

Toxicity to fish: LC50 (Danio rerio (zebra fish)) : >179 mg/l

Exposure Time: 96 Hours

Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)) : >200mg/l

Exposure Time: 48 Hours

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae: EC50 (Pseudokirchneriella subcapitata (green algae)): 400 mg/l

End point: Growth rate

Exposure Time: 96 Hours

Test Type: static test

Ecotoxicology Assessment

Acute aquatic toxicity: This product has no known Eco toxicological effects.

Chronic aquatic toxicity: This product has no known Eco toxicological effects.

PERSISTENCE AND DEGRADABILITY-

Biodegradability: inoculum: activated sludge

Biodegradation: 83%

Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Readily biodegradable

Biochemical Oxygen Demand (BOD): 1,940 mg/g

Chemical Oxygen Demand (COD): 2,160 mg/g

Theoretical Oxygen Demand (ThOD): 0.00272 mg/g

BIOACCUMULATIVE POTENTIAL-

Bioaccumulation: **Remarks:** Bioaccumulation is unlikely.

Partition coefficient: POW: 24

log Pow: Calculated 1.9

Mobility in soil:

Stability in soil: **Remarks:** Not expected to absorb on soil.

Acetone- CAS No. 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 No. 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).

N-Butyl Acetate CAS No. 123-86-4

Toxicity to fish: LL50: 18 mg/l

Species: Pimephales promelas (fathead minnow): 18 mg/l

Exposure time: 96 h

Test type: flow-through test

Method: OECD Test Guideline 203

GLP: no

Toxicity to daphnia & other aquatic invertebrates: EC50: 44 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Test type: Static Test

Toxicity to algae: EL50: 674.7 mg/l

Species: Pseudokirchneriella subcapitata

End point: Growth rate

Exposure time: 72 h

Toxicity to daphnia & other aquatic invertebrates (Chronic Toxicity): NOEC Daphnia magna (Water flea): 23 mg/l

Exposure time: 21 d

Toxicity to bacteria: EC 50: 356 mg/l

Species: Tetrahymena pyriformis (Ciliate)

Exposure time: 40 h

Test type: Static

PERSISTENCE AND DEGRADABILITY-

Biodegradability:

Test type: aerobic

Biodegradation: 83%

Exposure time: 28 d

Method: OECD Test Guideline 301D

Remarks: Readily biodegradable, according to appropriate OECD test.

Chemical Oxygen Demand (COD): 0.00169 mg/g

BOD/COD: 72%

Theoretical Oxygen Demand (ThOD): 0.0022 mg/g

BIOACCUMULATIVE POTENTIAL-

Bioaccumulation:

Species: Fish

Bio concentration factor (BCF): 15

Partition coefficient: log Pow- 1.82
n-octanol/water

Mobility in soil: No data available

Other adverse effects: No data available

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).

Additional ecological information: No data available.

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, Flammable (Acetone, Methyl Isobutyl Ketone, n-butyl Acetate, 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.
Methyl Isobutyl Ketone	108-10-1

SARA 311/312 Hazards: Fire hazard, acute health hazard, chronic health hazard

Massachusetts Right to Know Components:

Product	CAS No.
Methyl Isobutyl Ketone	108-10-1
Acetone	67-64-1
Toluene	108-88-3
n-butyl Acetate	123-86-4

Pennsylvania Right to Know Components:

Product	CAS No.
Methyl Isobutyl Ketone	108-10-1
Acetone	67-64-1
Toluene	108-88-3
n-butyl Acetate	123-86-4

New Jersey Right to Know Components:

Product	CAS No.
Methyl Isobutyl Ketone	108-10-1
Acetone	67-64-1
Toluene	108-88-3
n-butyl Acetate	123-86-4

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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