

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-895 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 2A
- Flammable Liquids- Category 2
- Specific target organ toxicity- single exposure- Category 3 (Central Nervous System, eyes, Respiratory Tract Irritation)
- Aspiration Hazard – Category 1
- Reproductive toxicity – Category 2
- Hazardous to the aquatic environment, acute & long term hazard – Category 2

**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+320- Causes skin irritation and eye 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 - 2

Flammability - 3

Reactivity - 0

**SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Chemical/Common Name</u>	<u>CAS #</u>	<u>PERCENTAGE</u>	<u>HAZARDOUS</u>
Ethylene Glycol Monobutyl Ether Acetate	112-07-2	5-10%	Yes
N-butyl Acetate	123-86-4	10-15%	Yes
Methyl Isobutyl Ketone	108-10-1	15-20%	Yes
Aromatic Solvent	64742-95-6	25-30%	Yes
Light Aliphatic Solvent	64742-49-0	15-20%	Yes
Propylene Glycol Methyl Ether Acetate	108-65-6	10-15%	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:** 40°F (T.C.C.)

**Auto-ignition Temperature:** N/D

**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 B (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 #	ACGIH Exposure Limits	OSHA Exposure Limits
Ethylene Glycol Monobutyl Ether Acetate	112-07-2	20 ppm	50 ppm
N-butyl Acetate	123-86-4	200 ppm	200 ppm
Methyl Isobutyl Ketone	108-10-1	20 ppm	50 ppm
Aromatic Solvent	64742-95-6	25 ppm	100 ppm
Light Aliphatic Solvent	64742-49-0	300 ppm	500 ppm
Propylene Glycol Methyl Ether Acetate	108-65-6	N.D.	50 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

<b>Products Description:</b>	Clear liquid with characteristic odor
<b>Solubility in Water:</b>	Insoluble
<b>Boiling Point:</b>	approximately 75°F
<b>Specific Gravity (WATER=1):</b>	0.845
<b>Vapor Pressure (mmHg):</b>	N/D
<b>Vapor Density (AIR=1):</b>	>1
<b>Evaporation Rate (BUTYL ACETATE=1):</b>	>1
<b>Flash Point (T.C.C.):</b>	40°F
<b>pH (1% w/w in water):</b>	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

### Ethylene Glycol Monobutyl Ether Acetate – CAS No. 112-07-2

<b>Acute oral toxicity:</b>	Acute toxicity estimate: 1,737 mg/kg Method: Calculation Method LD50 (rat, male and female): 1,800 mg/kg Method: OECD Test Guideline 401 Assessment: The component mixture is moderately toxic after single ingestion.
<b>Acute inhalation toxicity:</b>	Acute toxicity estimate: >30000 ppm Exposure time: 4 h Test atmosphere: gas Method: Calculation method
<b>Acute dermal toxicity:</b>	Acute toxicity estimate: 1,479 mg/kg Method: Calculation method LD50 (rabbit): 1,500 mg/kg Assessment: The component mixture is moderately toxic after single contact with skin.
<b>Skin corrosion/irritation</b>	Remarks: May cause skin irritation and/or dermatitis Species: rabbit Exposure time: 4 h Result: No skin irritation
<b>Serious eye damage/ Eye irritation:</b>	Vapors may cause irritation to the eyes, respiratory system and the skin. Species: rabbit Result: No eye irritation
<b>Respiratory/skin irritation:</b>	Test Type: Buehler Test Species: guinea pig Result: Did not cause sensitization on laboratory animals.

## Germ cell mutagenicity

**Genotoxicity in vitro:** Test type: Ames Test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: Negative  
Remarks: Information given is based on data obtained from similar substances.

**Genotoxicity in vivo:** Test type: In vivo micronucleus test  
Test species: mouse (male)  
Application Route: Intraperitoneal  
Exposure time: 3 d  
Dose: 0 – 1100 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No data available

**Germ cell mutagenicity:** Assessment: Did not show mutagenic effects in animal experiments.

## Carcinogenicity

Species: rat (male and female)  
Application Route: inhalation (vapor)  
Exposure time: 2 yrs  
Dose: 0, 62.5, 125, 250 ppm  
Frequency of Treatment: 6 h/d, 5 d/wk  
NOAEL: 125  
LOAEL: 250  
Method: OECD Test Guideline 451

**Carcinogenicity:** Assessment: Carcinogenicity classification not possible from current data.

**Result:** Limited evidence of carcinogenic effects with no relevance to humans.

**Carcinogenicity:** Assessment: No evidence of carcinogenicity in animal studies.

## Reproductive toxicity

**Effects on fertility:** Test Type: Two-generation study  
Species: mouse (male and female)  
Application Route: oral  
Dose: 0, 720, 1340, 2050, mg/kg bw  
Frequency of Treatment: 7d/wk  
General Toxicity – Parent: NOAEL: 720  
General Toxicity F1: NOAEL: 720  
Symptoms: Reduced fertility  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

**Effects on fetal Development:** Species: rabbit  
Application Route: vapor  
Dose: 0, 25, 50, 100, 200 ppm  
Duration of Single Treatment: 13 d  
Frequency of Treatment: 6 h/d  
General Toxicity Maternal: NOAEC: 100 ppm  
Teratogenicity: NOAEC: 200 ppm  
Developmental Toxicity: NOAEC: 100 ppm  
Method: OECD Test Guideline 414

Result: No teratogenic effects  
Remarks: Information given is based on data obtained from similar substances.

Species: rat  
Dose: 0, 30, 100, 200, 300 mg/kg bw  
Duration of Single Treatment: 3 d  
General Toxicity Maternal: NOAEC: 30  
Teratogenicity: NOAEC: >200  
Developmental Toxicity: NOAEC: 100  
Method: OECD Test Guideline 414  
Result: No teratogenic effects  
Remarks: Information given is based on data obtained from similar substances.

**Reproductive Toxicity:** Assessment: No toxicity to reproduction. Did not show teratogenic effects in animal experiments.

**STOT – Single Exposure:** No data available

**STOT – Repeated Exposure:** No data available

**Repeated dose toxicity:** Species: rat (male and female)  
NOAEL: <750  
Application Route: Oral  
Exposure time: 90 d  
Number of exposures: 7 d/w  
Dose: 750, 1500, 3000, 4500, 6000 ppm  
Method: OECD Test Guideline 408  
GLP: yes  
Target Organs: Liver  
Remarks: Information given is based on data obtained from similar substances.

Species: rabbit (male and female)  
NOAEL: <400  
Application Route: inhalation (vapor)  
Exposure time: 4 wks  
Number of Exposures: 4 h/d, 5 d/wk  
Dose: 0, 400 ppm  
Method: OECD Test Guideline 412  
Target Organs: Kidney, blood

Species: rabbit (male and female)  
NOAEL: >150 mg/kg  
Application Route: Dermal  
Exposure time: 90 d  
Number of exposures: 5 d/wk  
Dose: 0, 10, 50, 150 mg/kg bw

**Aspiration toxicity:** No aspiration toxicity classification

**Further information:** No data available

**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.

**STOT – Single Exposure:** No data available

**STOT – Repeated Exposure:** No data available

**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**

**Further Information:** 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.

#### **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**STOT – Single Exposure:** No data available**STOT – Repeated Exposure:** No data available**Aromatic Solvent – CAS No. 64742-95-6****Acute oral toxicity-** LD50 Oral: 2,000 mg/kg**Species:** Rat**Remarks:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.**Acute inhalation toxicity-** LC50: > saturated vapor concentration**Species:** Rat**Acute dermal toxicity-** LD50: 2,000 mg/kg**Species:** Rat**Remarks:** Skin, eye or respiratory sensitization: no irritation or sensitization detected.**Acute oral toxicity:** LD50 (rat, male and female): > 5,000 mg/kg**Method:** OECD Test Guideline 401**GLP:** yes**Acute inhalation toxicity:** Remarks: No data available**Acute dermal toxicity:** LD50 (rabbit, male and female): >2,000 mg/kg**Method:** OECD Test Guideline 402**GLP:** yes

**Skin corrosion/irritation**

**Species:** rabbit  
**Result:** Irritating to skin

**Serious eye damage/eye irritation**

**Species:** rabbit  
**Result:** Irritating to eyes

**Respiratory or skin sensitization**

**Test type:** Buehler Tests  
**Species:** guinea pig  
**Result:** Did not cause sensitization on laboratory animals

**Germ cell mutagenicity**

**Assessment:** Mutagenicity classification not possible from current data

**Carcinogenicity**

**Assessment:** Not classifiable as a human carcinogen

**Reproductive toxicity**

**Assessment:** Fertility classification not possible from current data.  
Embryo toxicity classification is not possible from current data.

**STOT – single exposure**

**Exposure Route:** Inhalation  
**Target Organs:** Central Nervous System  
**Assessment:** May cause drowsiness or dizziness. The substance of mixture is classified as specific target organ toxicant, single exposure, Category 3 with narcotic effects.

**STOT – repeated exposure:** No data available

**Aspiration toxicity:** May be fatal if swallowed and enters airways.

**Further Information:**

Remarks: 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.

**Light Aliphatic Solvent – CAS No. 64742-49-0**

**ACUTE TOXICITY**

**Acute oral toxicity:** Acute toxicity estimate: >5,000 mg/kg  
LD50 (rat, male and female)

**Method:** OECD Test Guideline 402

**GLP:** Yes

**Acute dermal toxicity:** Acute toxicity estimate: >1,100 mg/kg  
LD50 (rabbit, male and female): 2,000 mg/kg

**Method:** OECD Test Guideline 402

**GLP:** Yes

**Skin corrosion/irritation:** **Species:** rabbit  
**Exposure time:** 4 h  
**Result:** Irritating to skin

**Serious eye damage/eye Irritation:** **Species:** rabbit  
**Result:** Irritating to eyes

**Respiratory or skin****Sensitization:****Test Type:** Buehler Test**Species:** guinea pig**Result:** Did not cause sensitization on laboratory animals**Germ Cell mutagenicity:** Mutagenicity classification not possible from current data.**Carcinogenicity:****Assessment:** Not classified as a human carcinogen.**Reproductive Toxicity:****Assessment:** Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.**STOT****Single Exposure:****Exposure Route:** inhalation**Target Organs:** Central Nervous System**Assessment:** May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.**STOT****Repeated Exposure:**

Causes skin irritation

**Aspiration toxicity:**

May be fatal if swallowed and enters airways.

**Propylene Glycol Methyl Ether Acetate CAS No 108-65-6****Acute toxicity****Acute oral toxicity:** LD50 (rat, male and female): 8,532 mg/kg**Acute inhalation toxicity:** Remarks: No data available**Acute dermal toxicity:** LD50 (rabbit, male and female): >5,000 mg/kg**Method:** OECD Test Guideline 402**Skin corrosion/irritation****Species:** rabbit**Method:** OECD Test Guideline 404**Result:** No skin irritation**Serious eye damage/eye irritation****Species:** rabbit**Result:** No eye irritation**Method:** OECD Test Guideline 405**GLP:** yes

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

**Respiratory or skin sensitization****Test type:** Maximization Test (GPMT)**Species:** guinea pig**Method:** OECD Test Guideline 406**Result:** Did not cause sensitization on laboratory animals**GLP:** No**Remarks:** not sensitizing**Carcinogenicity****Species:** rat (male and female)**Application route:** Inhalation (vapor)**Exposure time:** 2 yr**Dose:** 0, 300, 1000, 3000 ppm**Frequency of Treatment:** 6 h/d, 5 d/w

**NOAEL:** No observed adverse effect level: 3,000 ppm  
**Method:** OECD Test Guideline 453  
**Result:** did not display carcinogenic properties  
**GLP:** yes  
**Assessment:** Animal testing did not show any carcinogenic effects.

### **Reproductive toxicity**

#### **Effects on fertility:**

**Species:** rat  
**Application route:** Oral  
**Dose:** 0, 100, 300, 1000 ppm  
**General toxicity-Parent:** NOAEL: 1,000 mg/kg bw  
**General toxicity F1:** NOAEL: 1,000 mg/kg bw  
**Method:** OECD Test Guideline 422  
**Result:** Animal testing did not show any effects on fertility.  
**GLP:** yes  
**Remarks:** Information given is based on data obtained from similar substances.

#### **Effects on fetal**

#### **Development:**

**Species:** rat  
**Application route:** Inhalation  
**Dose:** 0, 500, 2000, 4000 ppm  
**Duration of single treatment:** 9 d  
**Frequency of treatment:** 6 h/d  
**General toxicity-Maternal:** NOAEL: 500 ppm  
**Teratogenicity:** NOAEL: 4,000 ppm  
**GLP:** yes

### **Reproductive toxicity**

**Assessment:** Animal testing did not show any effects on fertility. Animal testing did not show any effects on fetal development.

### **Germ cell mutagenicity**

#### **Genotoxicity in vitro:**

Test type: Ames test  
Metabolic activation: with and without metabolic activation.  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: DNA damage and/or repair  
Test species: rat hepatocytes  
Metabolic activation: Without metabolic activation  
Method: OECD Test Guideline 482  
Result: Negative  
GLP: yes

### **Germ cell Mutagenicity**

**Assessment:** Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**STOT – single exposure:** No data available

**STOT – repeated exposure:** No data available

**Repeated dose toxicity:** Species: rat, (male and female)  
NOAEL: >1,000 mg/kg  
Application route: Oral  
Dose: 0, 100, 300, 1000 mg/kg

**Aspiration toxicity:** No aspiration toxicity classification

### **Further Information:**

Remarks: Solvents may degrease the skin.

## SECTION 12- ECOLOGICAL INFORMATION

### Ethylene glycol monobutyl ether acetate CAS No 112-07-2

#### ECOTOXICITY-

**Toxicity to fish:** LC50 (Oncorhynchus mykiss (rainbow trout)): 28 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

**Toxicity to daphnia and  
Other aquatic  
invertebrates:** (Water flea (Daphnia magna)): 37 mg/l  
Exposure time: 48 h  
Test Type: static test

**Toxicity to algae:** (Pseudokirchneriella subcapitata (green algae)): 520 mg/l  
End point: Biomass  
Exposure time: 72 h  
Test Type: static test  
Method: ISO 8692

**Toxicity to bacteria:** (Bacteria): 2,800 mg/l  
Exposure time: 18 h  
Test Type: growth inhibition

#### PERSISTENCE and DEGRADABILITY

**Biodegradability:** Result: Readily biodegradable  
Biodegradation: 88%  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

**Theoretical Oxygen  
Demand (ThOD):** 0.00210 mg/g  
Method: OECD Test Guideline 301B  
GLP: no

#### BIOACCUMULATIVE POTENTIAL

**Bioaccumulation:** Bio concentration factor (BCF) : <100  
Remarks: The substance has low potential for bioaccumulation.

**Partition coefficient: n-octanol/  
Water:** Log Pow: 0.83

**Mobility in soil:** No data available

**Other adverse effects:** No data available

**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:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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

**ECOTOXICITY-**

**Toxicity to fish:** LC50 (Pimephales promelas (fathead minnow)): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: no

**Toxicity to daphnia and Other aquatic**

**Invertebrates:** EC50 (Water flea (Daphnia magna)): 44 mg/l  
Exposure time: 48 h  
Test Type: static test

**Toxicity to algae:** EC50 (Desmodesmus subspicatus (green algae)): 674.7 mg/l  
End point: Growth rate  
Exposure time: 72 h

**Toxicity to daphnia and Other aquatic Invertebrates (Chronic**

**Toxicity):** NOEC (Daphnia magna (Water flea)): 23 mg/l  
Exposure time: 21 d

**Toxicity to bacteria:** EC 50 (Tetrahymena pyriformis (Ciliate)): 356 mg/l  
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: n-octanol/water:** Log Pow: 1.82

**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 ecotoxicological effects.

**Chronic aquatic toxicity:** This product has no known ecotoxicological 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

**Aromatic Solvent- CAS No 64742-95-6:**

**ECOTOXICITY-**

**Toxicity to fish:** Aquatic Invertebrates, Algae: Toxic:  $1 < LC/EC50 < 10$ mg/l

**PERSISTENCE AND DEGRADABILITY-**

**Biodegradability:** aerobic

**Result:** non biodegradable

**BIOACCUMULATIVE POTENTIAL-**

**Remarks:** This substance does not accumulate or biomagnify in the environment.

**Aliphatic Solvent- CAS No. 64742-49-0:**

**Ecotoxicity**

**Toxicity to fish:** LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l

**Exposure time:** 96 h

**Toxicity to daphnia & other**

**Aquatic invertebrates:** EC50 (Daphnia magna (water flea)) : 4.5 mg/l

**Exposure time:** 48 h



**Toxicity to algae:** EC50 (Pseudokirchneriella subcapitata (green algae)): 3.71 mg/l  
**Exposure time:** 96 h

**Ecotoxicity Assessment**

**Acute aquatic toxicity:** Toxic to aquatic life

**Chronic aquatic toxicity:** Toxic to aquatic life with long lasting effects

**Persistence and degradability:**

**Biodegradability:** aerobic  
**Inoculum:** activated sludge  
**Concentration:** 20 mg/l  
**Biodegradation:** 74.30%  
**Exposure time:** 56 d  
**GLP:** yes  
**Remarks:** Inherently biodegradable

**Bioaccumulative potential:**

**Partition coefficient:** n-octanol/water  
**Remarks:** No data available

**Regulation:** 40 CFR Protection of Environment: Part 82 Protection of Stratospheric Ozone – CAA Section 602 Class I Substances.  
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:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

**Propylene glycol methyl ether acetate CAS No 108-65-6:**

**ECOTOXICITY-**

**Toxicity to fish:** LC50 (Rainbow Trout): 100 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)): 500 mg/l  
**Exposure Time:** 48 Hours  
**Test Type:** immobilization  
**Test substance:** Information given is based on data obtained from similar substances.

**Toxicity to algae:** EC50 (Selenastrum capricornutum (green algae)): 1,000 mg/l  
**End Point:** Growth Rate  
**Exposure Time:** 96 Hours  
**Test Type:** static test  
**Test substance:** Information given is based on data obtained from similar substances.

**PERSISTENCE AND DEGRADABILITY-**

**Biodegradability:** aerobic  
**Inoculum:** activated sludge  
**Result:** Readily biodegradable  
**Biodegradation:** 90%  
**Exposure Time:** 28 days  
**GLP:** yes

**Biochemical Oxygen Demand (BOD):** 0.36 mg/l

**Chemical Oxygen Demand (COD):** 1.74 mg/l

**BIOACCUMULATIVE POTENTIAL-**

**Partition coefficient:**  
**n-octanol/water:** Log Pow: 0.43

**Mobility in soil:** No data available

**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:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

**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 (butyl acetate, aromatic & aliphatic solvent, methyl isobutyl ketone, propylene glycol methyl ether acetate, ethylene glycol monobutyl ether acetate.)  
Hazard class: 3  
Packing group: II

**SECTION 15- REGULATORY INFORMATION**

**OSHA Hazards:** Flammable liquid. Moderate skin & eye irritant.

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

**SARA 304: Extremely Hazardous Substances Reportable Quantity:** This material does not contain any components with a Section 304 EHS reportable quantity.

**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
Light aliphatic naphtha	64742-49-0
n-Butyl Acetate	123-86-4
Aromatic solvent	64742-95-6

**Pennsylvania Right to Know Components:**

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

Light aliphatic naphtha	64742-49-0
n-Butyl Acetate	123-86-4
Aromatic solvent	64742-95-6
Propylene glycol methyl ether acetate	108-65-6
Ethylene glycol monobutyl ether acetate	112-07-2

**New Jersey Right to Know Components:**

<b>Product</b>	<b>CAS No.</b>
Methyl Isobutyl Ketone	108-10-1
Light aliphatic naphtha	64742-49-0
n-Butyl Acetate	123-86-4
Aromatic solvent	64742-95-6
Propylene glycol methyl ether acetate	108-65-6
Ethylene glycol monobutyl ether acetate	112-07-2

**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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**DISCLAIMER:**

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