# **SAFETY DATA SHEET**

The Forsch Polymer Corporation encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

# 1. IDENTIFICATION

Product name: ADH 1001

Recommended use of the chemical and restrictions on use

Identified uses:

**COMPANY IDENTIFICATION** 

Forsch Polymer Corp. 3025 S. Wyandot St. Englewood, CO. 80110 303-322-9611

May,2015

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# **EMERGENCY TELEPHONE NUMBER**

**24-Hour Emergency Contact:** 303-548-7716 **Local Emergency Contact:** 303-548-7716

#### 2. HAZARDS IDENTIFICATION

#### Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Flammable liquids - Category 2

Skin irritation - Category 2

Eye irritation - Category 2A

Germ cell mutagenicity - Category 2

Carcinogenicity - Category 2

Specific target organ toxicity - single exposure - Category 3

Specific target organ toxicity - repeated exposure - Category 2

Aspiration hazard - Category 1

Label elements Hazard pictograms



Signal word: DANGER!

#### **Hazards**

Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Suspected of causing genetic defects.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

### **Precautionary statements**

#### Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.

Use personal protective equipment as required.

#### Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

IF exposed or concerned: Get medical advice/ attention.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

## Storage

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

# Disposal

Dispose of contents/ container to an approved waste disposal plant.

# Other hazards

no data available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Solution of organic compounds

This product is a mixture.

Component	CASRN	Concentration
Vinyl acetate/acrylic copolymer	Not Hazardous	10.0 - 12.0 %
Formaldehyde copolymer	Not Hazardous	7.0 - 9.0 %
Phenol	108-95-2	< 2.0 %
Formaldehyde	50-00-0	< 0.02 %
Xylene	1330-20-7	26.0 - 28.0 %
Ethylbenzene	100-41-4	5.0 - 6.0 %
Isopropyl alcohol	67-63-0	>= 2.0 - 4.0 %
Methanol	67-56-1	>= 2.0 - 4.0 %
Methyl ethyl ketone	78-93-3	12.0 - 14.0 %
Ethanol	64-17-5	>= 27.0 - 29.0 %

# 4. FIRST AID MEASURES

### **Description of first aid measures**

**Inhalation:** Move to fresh air. Give artificial respiration if breathing has stopped. Get prompt medical attention. In case of shortness of breath, give oxygen.

**Skin contact:** Remove contaminated clothing. Wash off with soap and plenty of water. Wash contaminated clothing before re-use. Do not take clothing home to be laundered. Consult a physician.

**Eye contact:** Rinse immediately with plenty of water for at least 15 minutes. Get prompt medical attention.

**Ingestion:** Drink 1 or 2 glasses of water. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Careful gastric lavage may be indicated. IMMEDIATELY see a physician. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

## Indication of any immediate medical attention and special treatment needed

**Notes to physician:** If vomiting occurs within 2 hours of methanol ingestion, gut decontamination is indicated."Antidote is ethanol which enhances elimination of metabolic formic acid. Supportive care is required after significant ethanol ingestion. Supportive care is required after significant isopropyl alcohol ingestion. The CNS and CVS must be evaluated. Massive ingestion of methyl ethyl ketone may cause gastric irritation with absorption leading to metabolic acidosis with an anion gap. CNS narcosis and cardiac arrhythmias effects may be similar to other organic solvents. Exposure to xylene can affect the CNS, pulmonary, cardiovascular, and gastrointestinal systems. Liver enzymes, EKG, serum electrolytes, and a chest X-ray should be done in cases of massive exposure.

# 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use the following extinguishing media when fighting fires involving this material: Water spray Foam Carbon dioxide (CO2) Dry chemical

Unsuitable extinguishing media: no data available

Special hazards arising from the substance or mixture Hazardous combustion products: no data available

**Unusual Fire and Explosion Hazards:** Vapors can travel to a source of ignition and flash back. Heated material can form flammable or explosive vapors with air. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat. During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition.

# Advice for firefighters

**Fire Fighting Procedures:** EXPLOSION HAZARD. Fight advanced fires from a protected location. Cool closed containers exposed to fire with water spray. Remain upwind. Avoid breathing smoke.

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

**Environmental precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Methods and materials for containment and cleaning up:** Eliminate all ignition sources. Evacuate personnel to safe areas. Ventilate the area. Floor may be slippery; use care to avoid falling. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal. No sparking tools should be used. Avoid breathing vapor. NOTE: Spills on porous surfaces can contaminate groundwater.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding the given occupational exposure limits (see section 8). In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Wear personal protective equipment. For personal protection see section 8. Ground all metal containers during storage and handling. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied.

Conditions for safe storage: Avoid temperature extremes during storage; ambient temperature preferred. Store away from excessive heat (e.g. steampipes,radiators), from sources of ignition and from reactive materials. Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Store out of direct sunlight in a cool place. Keep containers tightly closed in a cool, well-ventilated place. Avoid all ignition sources. Ground all metal containers during storage and handling.

Residual vapors in empty containers may explode on ignition. DO NOT cut, drill, grind or weld on or near container.

**Other data:** Vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required. Use non-sparking tools and grounding cables when transferring. Wash after handling and shower at end of work period. CONTAINERS MAY **BE** HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied. Improper disposal or re-use of this container may be dangerous and illegal. Refer to applicable local, state and federal regulations.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Phenol	ACGIH	TWA	5 ppm
	OSHA Z-1	TWA	mg/m3 5 ppm
	ACGIH	TWA	SKIN, BEI
	OSHA Z-1	TWA	Absorbed via
Formaldehyde	Rohm and	TLV-	skin 0.3 ppm
Torridadifydd	Haas ACGIH	СС	0.3 ppm 0.75
	OSHA CARC	PEL	ppm DSEN,
	ACGIH	С	RSEN 2 ppm
	OSHA CARC	STEL	Absorbed via
	OSHA Z-1		skin
	OSHA Z-1		
	OSHA Z-2		
Xylene	ACGIH	TWA	BEI
,	ACGIH	STEL	BEI

	OSHA Z-1	TWA	435 mg/m3 100 ppm
	ACGIH	TWA	100 ppm
<b>-</b> 4 "	ACGIH	STEL	150 ppm
Ethylbenzene	Rohm and Haas	TWA	25 ppm
	Rohm and Haas	STEL	75 ppm
	ACGIH	TWA	20 ppm
	ACGIH	TWA	BEI
	OSHA Z-1	TWA	435 mg/m3 100 ppm
Isopropyl alcohol	Rohm and Haas	TWA	150 ppm
	Rohm and Haas	STEL	300 ppm
	ACGIH	TWA	200 ppm
	ACGIH	STEL	400 ppm
	OSHA Z-1	TWA	980 mg/m3 400 ppm
	ACGIH	TWA	BEI
	ACGIH	STEL	BEI
Methanol	Rohm and Haas	TWA	200 ppm
	Rohm and Haas	STEL	250 ppm
	Rohm and Haas	Absorbed via skin	
	ACGIH	TWA	200 ppm
	ACGIH	STEL	250 ppm
	OSHA Z-1	TWA	260 mg/m3 200 ppm
	ACGIH	TWA	SKIN, BEI
	ACGIH	STEL	SKIN, BEI
Methyl ethyl ketone	Rohm and Haas	TWA	50 ppm
	Rohm and Haas	STEL	100 ppm
	ACGIH	TWA	200 ppm
	ACGIH	STEL	300 ppm
	OSHA Z-1	TWA	590 mg/m3 200 ppm
	ACGIH	TWA	BEI
	ACGIH	STEL	BEI
Ethanol	Rohm and Haas	TWA	1,000 ppm
	Rohm and Haas	STEL	1,250 ppm
	ACGIH	STEL	1,000 ppm
	OSHA Z-1	TWA	1,900 mg/m3 1,000
			ppm

# **Exposure controls**

**Engineering controls:** Use explosion-proof local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### Individual protection measures

**Eye/face protection:** Use chemical splash goggles (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed. **Skin protection** 

**Hand protection:** Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): 4H Glove (Trademark of Safety 4 NS of Denmark) Gloves should be removed and

replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

**Other protection:** Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact. Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Up to 10 times the exposure limit: Wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Up to 1000 ppm organic vapor: Wear a properly fitted NIOSH approved (or equivalent) full-facepiece, air-purifying respirator, OR full-facepiece, airline respirator in the pressure demand mode. Above 1000 ppm organic vapor or Unknown: Wear a properly fitted NIOSH approved (or equivalent) self-contained breathing appartus in the pressure demand mode, OR full-facepiece, airline respirator in the pressure demand mode with emergency escape provision. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state liquid
Color colourless
Odor Solvent odor
Odor Threshold no data available
pH Not Applicable
Melting point/range no data available
Freezing point no data available

**Boiling point (760 mmHg)** 63.80 °C ( 146.84 °F) Initial

Flash point closed cup 20.00 °C ( 68.00 °F) SETAFLASH CLOSED CUP

**Evaporation Rate (Butyl Acetate** 

= 1)

5.70 Methyl ethyl ketone

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Vapor Pressure

Not Applicable

1.10 % vol Xylene

15 % vol Ethanol

100.0000000 mmHg

Relative Vapor Density (air = 1) 3.7000 Xylene

Relative Density (water = 1) 0.8800
Water solubility insoluble

Partition coefficient: n- no data available

octanol/water

**Auto-ignition temperature** 404 °C (759 °F) Methyl ethyl ketone

**Decomposition temperature** no data available

Dynamic Viscosity

Kinematic Viscosity

no data available

Explosive properties

no data available

Oxidizing properties

no data available

Molecular weight

no data available

Percent volatility

Node to the properties of the

NOTE: The physical data presented above are typical values and should not be construed as a specification.

### 10. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: no data available

**Possibility of hazardous reactions:** This material is considered stable. However, avoid contact with ignition sources (e.g. sparks, open flame, heated surfaces).

Product will not undergo polymerization.

Conditions to avoid: no data available

Incompatible materials: Avoid contact with the following: Strong Oxidizers Acids Bases

**Hazardous decomposition products:** Thermal decomposition may yield the following:

formaldehyde-like Phenol

# 11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

### **Acute toxicity**

# Acute oral toxicity

Product test data not available.

# Acute dermal toxicity

Product test data not available.

# Acute inhalation toxicity

Product test data not available.

### Skin corrosion/irritation

Product test data not available.

# Serious eye damage/eye irritation

Product test data not available.

#### Sensitization

Product test data not available.

# **Specific Target Organ Systemic Toxicity (Single Exposure)**

Product test data not available.

# **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Product test data not available.

#### Carcinogenicity

Product test data not available.

### **Teratogenicity**

Product test data not available.

# Reproductive toxicity

Product test data not available.

#### Mutagenicity

Product test data not available.

#### **Aspiration Hazard**

Product test data not available.

#### **Additional information**

No toxicity data are available for this material.

# COMPONENTS INFLUENCING TOXICOLOGY:

#### Phenol

# Acute oral toxicity

Moderate toxicity if swallowed. Swallowing may result in burns of the mouth and throat.

LD50, Rat, male and female, 340 mg/kg No information available.

#### Acute dermal toxicity

Rapidly absorbed through skin in amounts which could cause death.

LD50, Rabbit, 850 mg/kg

LD50, Rat, female, 660 mg/kg OECD Test Guideline 402

# Acute inhalation toxicity

Excessive exposure may cause severe irritation to upper respiratory tract (nose and throat) and lungs. Prolonged excessive exposure may cause adverse effects. May cause pulmonary

edema (fluid in the lungs.) May cause central nervous system effects. Effects may be delayed.

LC50, Rat, 4 Hour, dust/mist, > 2.3 mg/l No deaths occurred at this concentration.

### Skin corrosion/irritation

Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

### Serious eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Material may be handled at elevated temperatures; contact with heated material may cause thermal burns.

#### Sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

#### **Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Specific Target Organ Systemic Toxicity (Repeated Exposure)

Repeated excessive exposure to phenol may cause central nervous system effects (including respiratory, motor difficulties, and paralysis), digestive disturbances, liver and kidney effects.

#### Carcinogenicity

Did not cause cancer in laboratory animals.

# **Teratogenicity**

Phenol has been toxic to the fetus in laboratory animals at doses toxic to the mother. Birth defects (cleft palate) were seen in mice at maternally lethal doses. This is a common developmental abnormality in mice and is associated with stress to the maternal animals.

## Reproductive toxicity

In animal studies, phenol did not interfere with reproduction. Toxicity to the newborn animals was observed at doses that were toxic to the maternal animals.

# Mutagenicity

In vitro genetic toxicity studies were negative in some cases and positive in other cases.

# Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

#### **Formaldehyde**

Acute oral toxicity

LD50, Rat, 100 mg/kg

# **Acute dermal toxicity**

LD50, Rabbit, 270 mg/kg

# Acute inhalation toxicity

LC50, Rat, 4 Hour, vapour, 0.578 mg/l

#### Skin corrosion/irritation

Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

# Serious eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Vapor may cause eye irritation experienced as mild discomfort and redness.

Vapor may cause lacrimation (tears).

Effects may be delayed.

#### Sensitization

Has caused allergic skin reactions in humans.

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

# **Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Specific Target Organ Systemic Toxicity (Repeated Exposure)

In animals, effects have been reported on the following organs:

Kidney.

Liver.

Respiratory tract.

Skin.

#### Carcinogenicity

Has caused cancer in humans. Has caused cancer in laboratory animals.

#### Teratogen icity

Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

#### Reproductive toxicity

No data available.

#### Mutagen icity

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative in some cases and positive in other cases.

#### **Aspiration Hazard**

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

#### **Xvlene**

#### Acute oral toxicity

LD50, Rat, 4,300 mg/kg

# Acute dermal toxicity

LD50, Rabbit, > 2,000 mg/kg

## Acute inhalation toxicity

LC50, Rat, 4 Hour, vapour, 27.5 mg/l

#### Skin corrosion/irritation

Prolonged contact may cause skin irritation with local redness.

Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Vapor may cause skin irritation.

May cause drying and flaking of the skin.

### Serious eye damage/eye irritation

May cause slight eye irritation.

May cause slight temporary corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

### Sensitization

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

# Specific Target Organ Systemic Toxicity (Single Exposure)

May cause respiratory irritation. Route of Exposure: Inhalation Target Organs: Respiratory system

# **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

In animals, effects have been reported on the following organs:

Liver

kidnev

Blood

Xylene is reported to have caused hearing loss in laboratory animals upon exposure to high concentrations; such effects have not been reported in humans.

#### Carcinogen icity

Xylene was not found to be carcinogenic in a National Toxicology Program bioassay in rats and mice.

#### Teratogen icity

Exaggerated doses of xylene given orally to pregnant mice resulted in an increase in cleft palate, a common developmental abnormality in mice. In animal inhalation studies, xylene caused toxicity to the fetus but did not cause birth defects. Available data are inadequate for evaluation of maternal toxicity.

### Reproductive toxicity

In animal studies, did not interfere with reproduction.

## Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

#### **Aspiration Hazard**

May be fatal if swallowed and enters airways.

### **Ethvlbenzene**

#### Acute oral toxicity

LD50, Rat, 3,500 mg/kg

#### Acute dermal toxicity

LD50, Rabbit, 15,500 mg/kg

## Acute inhalation toxicity

LC50, Rat, 4 Hour, vapour, 17.2 mg/14000 ppm

### Skin corrosion/irritation

Brief contact may cause moderate skin irritation with local redness.

Prolonged contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

May cause drying and flaking of the skin.

# Serious eye damage/eye irritation

May cause moderate eye irritation.

Vapor may cause lacrimation (tears).

#### Sensitization

Did not cause allergic skin reactions when tested in humans.

For respiratory sensitization:

No relevant data found.

#### Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Specific Target Organ Systemic Toxicity (Repeated Exposure)

In animals, effects have been reported on the following organs:

May cause hearing loss based on animal data.

Kidney.

Liver.

Lung.

Although one early inhalation study on ethylbenzene reported an adverse effect on the testes, recent, more comprehensive studies have not shown this effect.

# Carcinogenicity

Ethylbenzene has been shown to cause cancer in laboratory animals. There is no evidence that these findings are relevant to humans.

# **Teratogenicity**

Has caused birth defects in laboratory animals only at doses toxic to the mother. Has been toxic to the fetus in lab animals at doses nontoxic to the mother.

#### Reproductive toxicity

In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.

# Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

# **Aspiration Hazard**

Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia. May be fatal if swallowed and enters airways.

### Isopropyl alcohol

#### Acute oral toxicity

May cause central nervous system depression. Signs and symptoms of excessive exposure may include: Facial flushing. Low blood pressure. Irregular heartbeats. May cause nausea and vomiting.

LD50, Rat, 5,840 mg/kg OECD 401 or equivalent

Lethal Dose, Humans, 100 ml Estimated.

#### Acute dermal toxicity

LD50, Rabbit, > 12,800 mg/kg

### Acute inhalation toxicity

Observations in animals include middle ear lining damage upon exposure to vapors of isopropanol. However, the relevance of this to humans is unknown Excessive exposure (400 ppm) to isopropanol may cause eye, nose and throat irritation. Incoordination, confusion, hypothermia, circulatory collapse, respiratory arrest and death may follow a longer duration or higher levels.

LC50, Rat, male and female, 6 Hour, vapour, > 10000 ppm

#### Skin corrosion/irritation

Prolonged exposure not likely to cause significant skin irritation.

May cause drying and flaking of the skin.

# Serious eye damage/eye irritation

May cause pain disproportionate to the level of irritation to eye tissues.

May cause moderate eye irritation.

May cause moderate corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

Vapor may cause lacrimation (tears).

# Sensitization

For skin sensitization:

Did not cause allergic skin reactions when tested in guinea pigs.

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:

No relevant data found.

#### Specific Target Organ Systemic Toxicity (Single Exposure)

May cause drowsiness or dizziness.

Route of Exposure: Ingestion

Target Organs: Central nervous system

#### Specific Target Organ Systemic Toxicity (Repeated Exposure)

In animals, effects have been reported on the following organs:

Kidney. Liver. Kidney effects have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans.

Observations in animals include:

Lethargy.

#### Carcinogenicity

Did not cause cancer in laboratory animals.

# Teratogen icity

Isopropanol has been toxic to the fetus in laboratory animals at doses toxic to the mother.

#### Reproductive toxicity

In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.

# Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

# **Aspiration Hazard**

May be harmful if swallowed and enters airways.

#### Methanol

#### Acute oral toxicity

Methanol is highly toxic to humans and may cause central nervous system effects, visual disturbances up to blindness, metabolic acidosis, and degenerative damage to other organs including liver, kidney, and heart. Effects may be delayed. LD50, Rat, > 5,000 mg/kg

Lethal Dose, Humans, 29 - 237 ml Estimated.

# **Acute dermal toxicity**

LD50, Rabbit, 15,800 mg/kg

#### Acute inhalation toxicity

LC50, Rat, 4 Hour, vapour, 3 mg/l

#### Skin corrosion/irritation

Prolonged contact may cause slight skin irritation with local redness.

# Serious eye damage/eye irritation

May cause eye irritation.

#### Sensitization

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

# **Specific Target Organ Systemic Toxicity (Single Exposure)**

Causes damage to organs.

Route of Exposure: Oral

Target Organs: Eyes, Central nervous system

# **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Methanol is highly toxic to humans and may cause central nervous system effects, visual disturbances up to blindness, metabolic acidosis, and degenerative damage to other organs including liver, kidney, and heart.

#### Carcinogenicity

Did not cause cancer in laboratory animals.

#### **Teratogenicity**

Methanol has caused birth defects in mice at doses nontoxic to the mother as well as slight behavioral effects in offspring of rats.

# Reproductive toxicity

In animal studies, did not interfere with reproduction.

#### Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative in some cases and positive in other cases.

#### **Aspiration Hazard**

May be harmful if swallowed and enters airways.

### Methyl ethyl ketone

#### Acute oral toxicity

LD50, Rat, 2,657 - 5,554 mg/kg

### Acute inhalation toxicity

LC50, Rat, 4 Hour, vapour, 34.5 mg/l

#### Skin corrosion/irritation

Brief contact is essentially nonirritating to skin.

Prolonged contact may cause moderate skin irritation with local redness.

Repeated contact may cause moderate skin irritation with local redness.

May cause drying and flaking of the skin.

#### Serious eye damage/eye irritation

May cause pain disproportionate to the level of irritation to eye tissues.

May cause moderate eye irritation which may be slow to heal.

May cause moderate corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

#### Sensitization

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

# **Specific Target Organ Systemic Toxicity (Single Exposure)**

May cause drowsiness or dizziness. Route of Exposure: Inhalation Target Organs: Nervous system

# **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

In animals, effects have been reported on the following organs:

Liver.

Methyl ethyl ketone has caused liver effects in laboratory animals exposed by inhalation to high concentrations.

Methyl ethyl ketone is probably not neurotoxic in itself but it potentiates the neurotoxicity of methyl-n-butyl ketone and n-hexane.

# Carcinogenicity

Available data are inadequate to evaluate carcinogenicity.

#### **Teratogen icity**

Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Has caused birth defects in laboratory animals only at doses toxic to the mother.

#### Reproductive toxicity

For similar material(s): In animal studies, did not interfere with reproduction.

#### Mutagen icity

In vitro genetic toxicity studies were predominantly negative. Animal genetic toxicity studies were negative.

#### **Aspiration Hazard**

May be harmful if swallowed and enters airways.

### **Ethanol**

#### Acute oral toxicity

LD50, Rat, 7,060 mg/kg

LDLo, human, 1,400 mg/kg

# Acute dermal toxicity

LD50, Rabbit, > 15,800 mg/kg

# Acute inhalation toxicity

LC50, Rat, 4 Hour, vapour, 124.7 mg/l

#### Skin corrosion/irritation

Essentially nonirritating to skin.

May cause drying and flaking of the skin.

# Serious eye damage/eye irritation

May cause moderate eye irritation.

May cause moderate corneal injury.

# Sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No data available.

# Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

# Specific Target Organ Systemic Toxicity (Repeated Exposure)

No specific, relevant data available for assessment.

## Carcinogenicity

Ethanol when not consumed in an alcoholic beverage is not classifiable as a human carcinogen. Epidemiology studies provide evidence that drinking of alcoholic beverages (containing ethanol) is associated with cancer, and IARC has classified alcoholic beverages as carcinogenic to humans.

### Teratogen icity

Has caused birth defects in lab animals at high doses.

## Reproductive toxicity

No specific, relevant data available for assessment.

#### Mutagen icity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative in some cases and positive in other cases.

#### **Aspiration Hazard**

May be harmful if swallowed and enters airways.

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Carcinogenicity		
Component	List	Classification
Formaldehyde	IARC	Group 1: Carcinogenic to humans
-	OSHA CARC	OSHA specifically regulated carcinogen
	ACGIH	A2: Suspected human carcinogen
Ethylbenzene	IARC	Group 2B: Possibly carcinogenic to humans
	ACGIH	A3: Confirmed animal carcinogen with unknown relevance to humans.
Ethanol	ACGIH	A3: Confirmed animal carcinogen with unknown relevance to humans.

# 12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

### **General Information**

There is no data available for this product.

#### **Toxicity**

#### **Phenol**

# Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 5.02 - 13.1 mg/l

# Acute toxicity to aquatic invertebrates

LC50, Ceriodaphnia dubia (water flea), 48 Hour, 4.3 - 20 mg/l

# Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (microalgae), static test, 96 Hour, Growth inhibition (cell density reduction), 61.1 mg/l, Other guidelines

#### Toxicity to bacteria

EC50, activated sludge, 110 - 800 mg/l

# Chronic toxicity to fish

MATC (Maximum Acceptable Toxicant Level), Pimephales promelas (fathead minnow), 28 d, 2.56 mg/l

#### **Formaldehyde**

# Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Bluegill sunfish (Lepomis macrochirus), flow-through test, 96 Hour, 50 mg/l

LC50, striped bass (Morone saxatilis), static test, 96 Hour, 6.7 mg/l

LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 Hour, 44 mg/l, OECD Test Guideline 203 or Equivalent

# Acute toxicity to aquatic invertebrates

EC50, Daphnia pulex (Water flea), static test, 48 Hour, 5.8 mg/l, OECD Test Guideline 202 or Equivalent

# Acute toxicity to algae/aquatic plants

EC50, Desmodesmus subspicatus (green algae), Static, 72 Hour, Growth rate, 4.89 mg/l, OECD Test Guideline 201 or Equivalent

#### Toxicity to bacteria

EC50, activated sludge, 3 Hour, 19.6 mg/l, OECD 209 Test

#### Chronic toxicity to fish

NOEC, Oryzias latipes (Orange-red killifish), flow-through, 28 d, mortality, >= 48 mg/l

# **Xvlene**

# Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 2.6 mg/l, OECD Test Guideline 203 or Equivalent

### Acute toxicity to aquatic invertebrates

IC50, Daphnia magna (Water flea), 24 Hour, 1 - 4.7 mg/l, OECD Test Guideline 202 or Equivalent

# Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (algae), Static, 73 Hour, Growth rate, 4.36 mg/l, OECD Test Guideline 201 or Equivalent

NOEC, Pseudokirchneriella subcapitata (green algae), 73 Hour, Growth rate, 0.44 mg/l, OECD Test Guideline 201 or Equivalent

#### Chronic toxicity to fish

NOEC, Oncorhynchus mykiss (rainbow trout), flow-through, 56 d, mortality, > 1.3 mg/l

# **Ethylbenzene**

# Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 4.2 mg/l, OECD Test Guideline 203 or Equivalent

### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), Static, 1 d, 2.2 mg/l

# Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth inhibition (cell density reduction), 3.6 - 4.6 mg/l, OECD Test Guideline 201 or Equivalent

#### Toxicity to bacteria

EC50, Bacteria, 16 Hour, > 12 mg/l

#### Toxicity to soil-dwelling organisms

LC50, Eisenia fetida (earthworms), 2 d, survival, 0.047 mg/cm2

#### Isopropyl alcohol

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50, Pimephales promelas (fathead minnow), flow-through test, 96 Hour, 9,640 mg/l, OECD Test Guideline 203 or Equivalent

#### Acute toxicity to aquatic invertebrates

LC50, Daphnia magna (Water flea), static test, 24 Hour, > 1,000 mg/l, OECD Test Guideline 202 or Equivalent

#### Acute toxicity to algae/aquatic plants

NOEC, alga Scenedesmus sp., static test, 7 d, Growth inhibition (cell density reduction), 1.800 mg/l

ErC50, alga Scenedesmus sp., static test, 72 Hour, Growth rate inhibition, > 1,000 mg/l

#### Toxicity to bacteria

EC50, activated sludge, > 1,000 mg/l

# Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, 30 mg/l

#### Methanol

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 > 100 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 19,000 mg/l, Method Not Specified.

# Acute toxicity to aquatic invertebrates

LC50, Daphnia magna (Water flea), 24 Hour, > 10,000 mg/l, Method Not Specified.

#### Toxicity to bacteria

IC50, activated sludge, 3 Hour, > 1,000 mg/l

# Methyl ethyl ketone

## Acute toxicity to fish

LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 2,993 mg/l, OECD Test Guideline 203

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (VVater flea), static test, 48 Hour, 308 mg/l, OECD Test Guideline 202

#### Acute toxicity to algae/aguatic plants

ErC50, Pseudokirchneriella subcapitata (microalgae), static test, 96 Hour, Growth rate inhibition, 2,029 mg/l, OECD Test Guideline 201

#### Toxicity to bacteria

EC50, Bacteria, 96 Hour, > 1,000 mg/l, hUCC

# **Ethanol**

### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Oncorhynchus mykiss (rainbow trout), flow-through test, 96 Hour, 11,200 - 13,000 mg/l, Method Not Specified.

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (VVater flea), 48 Hour, 5,414 mg/l, OECD Test Guideline 202 or Equivalent

# Acute toxicity to algae/aquatic plants

EbC50, Skeletonema costatum, 5 d, Biomass, 10,943 - 11,619 mg/l, OECD Test Guideline 201 or Equivalent

# Persistence and degradability

#### Phenol

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability.

**10-day** Window: Not applicable **Biodegradation:** 62 % **Exposure time:** 100 Hour

Method: OECD Test Guideline 301C or Equivalent

10-day Window: Not applicable

Biodegradation: 85 % Exposure time: 14 d

Method: OECD Test Guideline 301C or Equivalent

Theoretical Oxygen Demand: 2.38 mg/mg

# Photodegradation

**Test Type:** Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 3.8 Hour

Method: Estimated.

### Formaldehyde

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. 10-day Window: Pass Biodegradation: 90 % Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Theoretical Oxygen Demand: 1.07 mg/mg

# Biological oxygen demand (BOD)

Incubation Time	BOD
5d	> 100 %
10d	> 100 %
20d	> 100 %

**Photodegradation** 

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 15.8 Hour

Method: Estimated.

# <u>Xvlene</u>

Biodegradability: Material is expected to be readily biodegradable.

10-day Window: Pass Biodegradation: > 60 % Exposure time: 10 d

Method: OECD Test Guideline 301F or Equivalent

Theoretical Oxygen Demand: 3.17 mg/mg

# Biological oxygen demand (BOD)

Incubation Time	BOD
5d	37.000%
10d	58.000%
20 d	72.000 %

**Photodegradation** 

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 19.7 Hour

Method: Estimated.

#### Ethylbenzene

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. 10-day Window: Pass Biodegradation: 100 % Exposure time: 6 d

Method: OECD Test Guideline 301E or Equivalent

Theoretical Oxygen Demand: 3.17 mg/mg Estimated.

Chemical Oxygen Demand: 2.62 mg/mg Dichromate

# Biological oxygen demand (BOD)

Incubation Time	BOD
5d	31.5%
10d	38.5%
20d	45.4%

Photodegradation Sensitizer: OH radicals

Atmospheric half-life: 55 Hour

Method: Estimated.

### Isopropyl alcohol

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. 10-day Window: Pass Biodegradation: 95 °A Exposure time: 21 d

Method: OECD Test Guideline 301E or Equivalent

10-day Window: Pass Biodegradation: 53 ')/0 Exposure time: 5 d Method: Other guidelines

Theoretical Oxygen Demand: 2.40 mg/mg Estimated.

Chemical Oxygen Demand: 2.09 mg/mg Estimated.

## Biological oxygen demand (BOD)

Incubation	BOD	
Time		
5d	20 - 72 %	
20d	78 - 86 %	

**Photodegradation** 

**Test Type:** Half-life (indirect photolysis)

**Sensitizer:** OH radicals **Atmospheric half-life:** 1.472 d

Method: Estimated.

# **Methanol**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Theoretical Oxygen Demand: 1.50 mg/mg

Chemical Oxygen Demand: 1.49 mg/mg Dichromate

# Biological oxygen demand (BOD)

Incubation Time	BOD
5d	72%
20d	79%

**Photodegradation** 

**Test Type:** Half-life (indirect photolysis)

**Sensitizer:** OH radicals **Atmospheric half-life:** 8 - 18 d

Method: Estimated.

## Methyl ethyl ketone

Biodegradability: 10-day Window: Not applicable

Biodegradation: 98 % Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

# **Ethanol**

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. 10-day Window: Pass **Biodegradation:** > 70 % **Exposure time:** 5 d

Method: OECD Test Guideline 301D or Equivalent

Theoretical Oxygen Demand: 2.08 mg/mg

Photodegradation

Test Type: Half-life (indirect photolysis)

**Sensitizer:** OH radicals **Atmospheric half-life:** 2.99 d

Method: Estimated.

# **Bioaccumulative potential**

# **Phenol**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 1.47 at 30 °C Measured

Bioconcentration factor (BCF): 10 - 39 Other Measured

## **Formaldehyde**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient:** n-octanol/water(log Pow): 0.35 Method Not Specified.

Bioconcentration factor (BCF): 3 Fish. Estimated.

# <u>Xvlene</u>

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 3.12 Measured

Bioconcentration factor (BCF): 25.9 Rainbow trout (Salmo gairdneri) Measured

# **Ethvlbenzene**

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 3.15 Measured

Bioconcentration factor (BCF): 15 Fish. Measured

#### Isopropyl alcohol

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.05 Measured

#### Methanol

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -0.77 Measured Bioconcentration factor (BCF): < 10 Fish. Measured

#### Methyl ethyl ketone

Partition coefficient: n-octanol/water(log Pow): 0.29 Measured

#### **Ethanol**

**Bioaccumulation:** Bioaccumulation is unlikely. Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -0.31 Measured

#### Mobility in soil

# Phenol

Potential for mobility in soil is high (Koc between 50 and 150).

Partition coefficient(Koc): 27 - 91 Estimated.

#### **Formaldehyde**

Potential for mobility in soil is very high (Koc between 0 and 50).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient(Koc): 1 Estimated.

#### Xylene\_

Potential for mobility in soil is medium (Koc between 150 and 500).

Partition coefficient(Koc): 443 Estimated.

#### Ethylbenzene

Potential for mobility in soil is low (Koc between 500 and 2000).

Partition coefficient(Koc): 518 Estimated.

# Isopropyl alcohol

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 1.1 Estimated.

#### Methanol

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 0.44 Estimated.

## Methyl ethyl ketone

Partition coefficient(Koc): 3.8 Estimated.

#### **Ethanol**

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 1.0 Estimated.

# 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** For disposal, incinerate this material at a facility that complies with local, state, and federal regulations. (See 40 CFR 268)

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. TRANSPORT INFORMATION

### DOT

Proper shipping name
UN number
UN 1133
Class
Packing group
Reportable Quantity
Adhesives
UN 1133
II
Xylene

# Classification for SEA transport (IMO-IMDG):

Proper shipping name ADHESIVES UN number UN 1133 Class 3 Packing group II No

Transport in bulk Consult IMO regulations before transporting ocean bulk

according to Annex I or II of MARPOL 73/78 and the

**IBC or IGC Code** 

# Classification for AIR transport (IATA/ICAO):

Proper shipping name Adhesives
UN number UN 1133
Class 3
Packing group II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### 15. REGULATORY INFORMATION

#### **OSHA Hazard Communication Standard**

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute Health Hazard Chronic Health Hazard Fire Hazard

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.)

 Components
 CASRN

 Xylene
 1330-20-7

 Ethylbenzene
 100-41-4

 Methanol
 67-56-1

 Phenol
 108-95-2

# Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2,

Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

The following chemicals are listed because of the additional requirements of Pennsylvania law:

ComponentsCASRNFormaldehyde50-00-0

### California (Proposition 65)

This product contains a component or components known to the state of California to cause cancer:

ComponentsCASRNFormaldehyde50-00-0Methyl isobutyl ketone108-10-1Ethylbenzene100-41-4

### **United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

# **16. OTHER INFORMATION**

Hazard Rating System HMIS

Health	Flammability	Physical Hazard
2*	3	0

<sup>\*=</sup> Chronic Effects (See Hazards Identification)

#### Revision

Identification Number: 101118584 / 1001 / Issue Date: 02/18/2015 / Version: 4.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

# Legend

Absorbed via skin
USA. ACGIH Threshold Limit Values (TLV)
Biological Exposure Indices
Ceiling limit
Skin and respiratory sensitizer
OSHA Specifically Regulated Chemicals/Carcinogens
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
Contaminants
USA. Occupational Exposure Limits (OSHA) - Table Z-2
Permissible exposure limit (PEL)
Rohm and Haas OEL's
Absorbed via Skin, Biological Exposure Indice
Short term exposure limit
Ceiling Limit Value
Time weighted average

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