## 7/20/2015

21724-XXXX

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

#### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Chemical Name Mixture CAS No. Mixture

Trade Name GRUMBACHER WORKABLE FIXATIVE

Product Code 546 & 646 / M-5356

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Metalworking product

Uses Advised Against None

Company Identification Chartpak, Inc.
One River Road
Leeds, MA 01053

 Telephone
 (800) 628-1910

 Fax
 (413) 586-9339

 E-Mail (competent person)
 info@chartpak.com

**Emergency telephone number** 

Emergency Phone No. Transportation Emergency: CHEMTREC 24 hr. 1-800-424-

9300 / 1 (703) 527-3887 (Collect calls accepted)

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Flam. Aerosol 1;

Flam. Aerosol 1; Liquefied gas; Skin Irrit. 2; Eye Irrit. 2; Repr. 2; STOT SE 3; STOT RE 2; Asp. Tox. 1

#### Label elements

Hazard Symbol



Signal word(s)

Hazard Statement(s)

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

May cause damage to organs through prolonged or repeated exposure (Inhalation - neuropsychological effects, auditory dysfunction and effects on colour vision)

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Other hazards

## **GRUMBACHER WORKABLE FIXATIVE, 546-646**

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Precautionary Statement(s) Obtain special instructions before use.

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Wear protective gloves/protective clothing/eye protection/face protection.

Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands and exposed skin after use.

Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Harmful to aquatic life.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Acetone	Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
STOT SE 3; H336   Flam. Liq. 2; H225   Flam. September   Flam. S				Flam. Liq. 2; H225
Ethyl Acetate 10 - 20 141-78-6 Flam. Liq. 2; H225 STOT SE 3: H336  Propane 10 - 20 74-98-6 Flam. Gas 1; H220 Liquefied gas; H280  Butane 10 - 20 106-97-8 Flam. Gas 1; H220 Liquefied gas; H280  Flam. Liq. 3; H226 Skin Irrit. 2; H315  Eye Irrit. 2B; H319  Asp. Tox. 1; H304 STOT SE 3; H336  Aquatic Acute 2; H401  Flam. Liq. 2; H225  Repr. 2; H361  Skin Irrit. 2; H315  Flam. Liq. 2; H226  Repr. 2; H361  Skin Irrit. 2; H315  Eye Irrit. 2; H319  Asp. Tox. 1; H304  STOT SE 3; H336  Flam. Liq. 2; H226  Repr. 2; H361  Skin Irrit. 2; H319  Asp. Tox. 1; H304  STOT SE 3; H336  STOT SE 3; H336  STOT RE 2; H373  Aquatic Acute 2; H401  Aquatic Chronic 3; H412  Flam. Liq. 2; H225  Acute Tox. 4; H332  Asp. Tox. 1; H304  STOT RE 2; H373  Aquatic Acute 2; H401  Aquatic Chronic 3; H412  Flam. Liq. 2; H225  Flam. Li	Acetone	40 - 50	67-64-1	Eye Irrit. 2; H319
Propane				STOT SE 3; H336
Propane 10 - 20 74-98-6 Fiam. Gas 1; H220 Liquefied gas; H280  Butane 10 - 20 106-97-8 Fiam. Gas 1; H220 Liquefied gas; H280  Fiam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2B; H319 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Acute 2; H401  In-Butyl Acetate 1 - 10 123-86-4 Fiam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 Eye Irrit. 2B; H319 Asp. Tox. 1; H304 STOT SE 3; H336 Fiam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 Eye Irrit. 2; H315 Eye Irrit. 2; H316 Stort SE 3; H336 Fiam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Fiam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Fiam. Liq. 2; H225 Isopropanol < 5 67-63-0 Figure Liq. 2; H225 Isopropanol < 5 Fiam. Liq. 2; H225 Fiam. Liq. 2; H2319	Ethiol A satata	10 20	141 70 6	Flam. Liq. 2; H225
Butane	Etnyl Acetate	10 - 20	141-70-0	STOT SE 3: H336
Butane 10 - 20 106-97-8 Flam. Gas 1; H220 Flam. Liq. 2; H230  Skin Irrit. 2; H315  Xylene 1 - 10 1330-20-7 Eye Irrit. 2B; H319  Xylene 1 - 10 123-86-4 Flam. Liq. 2; H401  n-Butyl Acetate 1 - 10 123-86-4 Flam. Liq. 2; H226  Repr. 2; H361  Skin Irrit. 2B; H319  Asp. Tox. 1; H304  STOT SE 3; H336  Aquatic Acute 2; H401  Skin Irrit. 2B; H319  Flam. Liq. 2; H226  Repr. 2; H361  Skin Irrit. 2B; H319  Flam. Liq. 2; H226  Repr. 2; H361  Skin Irrit. 2B; H319  Flam. Liq. 2; H226  Repr. 2B; H361  Skin Irrit. 2B; H319  Flam. Liq. 2B; H361  Skin Irrit. 2B; H306  Flam. Liq. 2B; H361  Skin Irrit. 2B; H304  Flam. Liq. 2B; H366  Stot Stot Stot Stot Stot Stot Stot Sto	Danasas	4000	74.00.0	Flam. Gas 1; H220
Sulane   10 - 20   106-97-8   Liquefied gas; H280   Flam. Liq. 3; H226   Skin Irrit. 2; H315   Eye Irrit. 2B; H319   Asp. Tox. 1; H304   STOT SE 3; H336   Aquatic Acute 2; H401   Apuatic Chronic 3; H412   Flam. Liq. 2; H225   Acute Tox. 4; H304   Asp. Tox. 1; H304   STOT SE 3; H336   Apuatic Acute 2; H401   Aquatic Chronic 3; H412   Flam. Liq. 2; H225   Acute Tox. 4; H315   Acute Tox. 4; H316   Acute 2; H401   Aquatic Chronic 3; H412   Flam. Liq. 2; H225   Acute Tox. 4; H332   Aquatic Acute 2; H401   Aquatic Chronic 3; H412   Asp. Tox. 1; H304   STOT RE 2; H304   Acute Tox. 4; H332   Aquatic Acute 2; H401   Aquatic Chronic 3; H412   Asp. Tox. 1; H304   STOT RE 2; H304   Aquatic Acute 2; H401   Aquatic Chronic 3; H412   Flam. Liq. 2; H225   Acute Tox. 4; H332   Aquatic Acute 2; H401   Aquatic Chronic 3; H412   Flam. Liq. 2; H225   Eye Irrit. 2; H319   STOT SE 3; H336   Flam. Liq. 2; H225   Eye Irrit. 2; H319   STOT SE 3; H336   Flam. Liq. 2; H225   Eye Irrit. 2; H319   STOT SE 3; H336   Flam. Liq. 2; H225   Eye Irrit. 2; H319   STOT SE 3; H336   Flam. Liq. 2; H225   Eye Irrit. 2; H319   STOT SE 3; H336   Eye Irrit. 2; H319	Propane	10 - 20	74-98-6	Liquefied gas; H280
Liquefled gas; H280	Dutana	40.00	400.07.0	Flam. Gas 1; H220
Skin Irrit. 2; H315	Butane	10 - 20	106-97-8	Liquefied gas; H280
Toluene				Flam. Liq. 3; H226
1 - 10				Skin Irrit. 2; H315
Asp. Tox. 1; H304 STOT SE 3: H336 Aquatic Acute 2; H401  n-Butyl Acetate  1 - 10  123-86-4  Flam. Liq. 3; H226 STOT SE 3; H336 Flam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H319 STOT SE 3; H319  Toluene  1 - 10  108-88-3  Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Flam. Liq. 2; H225 Acute Tox. 4; H334 STOT RE 2; H373 Aquatic Acute 2; H401 Apuatic Chronic 3; H412 Flam. Liq. 2; H225 Flam. Liq. 2; H219				Eye Irrit. 2B; H319
Aquatic Acute 2; H401	Xylene	1 - 10	1330-20-7	Asp. Tox. 1; H304
Telam. Liq. 3; H226   STOT SE 3; H336   Flam. Liq. 2; H225   Repr. 2; H361   Skin Irrit. 2; H315   Eye Irrit. 2; H319   STOT SE 3; H336   STOT SE 3; H337   Aquatic Acute 2; H401   Aquatic Chronic 3; H412   Flam. Liq. 2; H225   Acute Tox. 4; H332   Asp. Tox. 1; H304   STOT RE 2; H373   Aquatic Acute 2; H401   Aquatic Chronic 3; H412   STOT RE 2; H373   Aquatic Acute 2; H401   Aquatic Chronic 3; H412   Flam. Liq. 2; H225   Stopropanol   < 5   67-63-0   Eye Irrit. 2; H319   STOT SE 3; H336   Flam. Liq. 2; H225   Stopropanol   STOT SE 3; H336   Flam. Liq. 2; H225   Stopropanol   STOT SE 3; H336   Flam. Liq. 2; H225   Stopropanol   STOT SE 3; H336   Flam. Liq. 2; H225   Stopropanol   STOT SE 3; H336   Flam. Liq. 2; H225   Stopropanol   STOT SE 3; H336   STOT SE 3; H336   Flam. Liq. 2; H225   Stopropanol   STOT SE 3; H336   STOT SE				STOT SE 3: H336
STOT SE 3; H336				Aquatic Acute 2; H401
STOT SE 3; H336			100.00.1	Flam. Lig. 3; H226
Flam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Flam. Liq. 2; H225 Flam. Liq. 2; H225 Eye Irrit. 2; H319 Flam. Liq. 2; H225 Flam. Liq. 2; H319	n-Butyl Acetate	1 - 10	123-86-4	
Repr. 2; H361   Skin Irrit. 2; H315   Eye Irrit. 2; H319     Toluene		Repr. 2; H Skin Irrit. 2; I		·
Eye Irrit. 2; H319				Repr. 2; H361
Toluene 1 - 10 108-88-3 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412  Ethyl benzene 1 - 10 100-41-4 STOT RE 2; H373 Aquatic Acute 2; H401 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412  Isopropanol < 5 67-63-0 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Flam. Liq. 2; H225 Eye Irrit. 2; H225 Eye Irrit. 2; H319				Skin Irrit. 2; H315
STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aguatic Acute 2; H401 Aquatic Chronic 3; H412 Flam. Liq. 2; H225 Flam. Liq. 2; H255 STOT SE 3; H336 Flam. Liq. 2; H225 Flam. Liq. 2; H319			Eye Irrit. 2; H319	
STOT RE 2; H373   Aquatic Acute 2; H401   Aquatic Chronic 3; H412	Toluene	1 - 10	108-88-3	Asp. Tox. 1; H304
Aquatic Acute 2; H401 Aquatic Chronic 3; H412  Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412  Isopropanol				STOT SE 3; H336
Aquatic Chronic 3; H412  Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412  Isopropanol  < 5 67-63-0  Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Flam. Liq. 2; H225 Eye Irrit. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Flam. Liq. 2; H225 Eye Irrit. 2; H319				STOT RE 2; H373
Aquatic Chronic 3; H412  Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412  Isopropanol  < 5 67-63-0  Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Flam. Liq. 2; H225 Eye Irrit. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Flam. Liq. 2; H225 Eye Irrit. 2; H319				Aquatic Acute 2; H401
Ethyl benzene  1 - 10  100-41-4  Acute Tox. 4; H332  Asp. Tox. 1; H304  STOT RE 2; H373  Aquatic Acute 2; H401  Aquatic Acute 2; H401  Aquatic Chronic 3; H412  Flam. Liq. 2; H225  Eye Irrit. 2; H319  STOT SE 3; H336  Flam. Liq. 2; H225  Methyl Ethyl Ketone  < 5 78-93-3  Eye Irrit. 2; H319  Flam. Liq. 2; H225  Eye Irrit. 2; H319				Aquatic Chronic 3; H412
Ethyl benzene  1 - 10  100-41-4  Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412  Isopropanol  < 5  67-63-0  Flam. Liq. 2; H225 STOT SE 3; H336 Flam. Liq. 2; H225  Methyl Ethyl Ketone  < 5  78-93-3  Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412  Flam. Liq. 2; H319  Flam. Liq. 2; H225 Eye Irrit. 2; H319				Flam. Lig. 2; H225
STOT RE 2; H373   Aquatic Acute 2; H401   Aquatic Chronic 3; H412				Acute Tox. 4; H332
STOT RE 2; H373   Aquatic Acute 2; H401   Aquatic Chronic 3; H412				Asp. Tox. 1; H304
Aquatic Chronic 3; H412   Flam. Liq. 2; H225	Etnyl benzene	1 - 10	100-41-4	STOT RE 2; H373
Flam. Liq. 2; H225   Eye Irrit. 2; H319   STOT SE 3; H336   Flam. Liq. 2; H225   Methyl Ethyl Ketone   < 5   78-93-3   Eye Irrit. 2; H319				Aquatic Acute 2; H401
Flam. Liq. 2; H225   Eye Irrit. 2; H319   STOT SE 3; H336   Flam. Liq. 2; H225   Methyl Ethyl Ketone   < 5   78-93-3   Eye Irrit. 2; H319				Aquatic Chronic 3; H412
Isopropanol   < 5   67-63-0   Eye Irrit. 2; H319   STOT SE 3; H336				
STOT SE 3; H336 Flam. Liq. 2; H225 Methyl Ethyl Ketone < 5 78-93-3 Eye Irrit. 2; H319	Isopropanol	< 5	67-63-0	• •
Flam. Liq. 2; H225  Methyl Ethyl Ketone < 5 78-93-3 Eye Irrit. 2; H319	· ·			The state of the s
Methyl Ethyl Ketone < 5 78-93-3 Eye Irrit. 2; H319				·
	Methyl Ethyl Ketone	< 5	78-93-3	• 7
				STOT SE 3: H336

Additional Information - None

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\* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

#### **SECTION 4: FIRST AID MEASURES**



#### Description of first aid measures

Move person to fresh air. If breathing is labored, administer oxygen. If Inhalation

symptoms develop, obtain medical attention.

Skin Contact Wash affected skin with soap and water. If symptoms develop, obtain

medical attention. Take off contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

Eye Contact Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

Ingestion Do not give anything by mouth to an unconscious person. Seek medical

treatment. Do NOT induce vomiting.

Most important symptoms and effects, both acute and

delaved

Aspiration of droplets may cause pulmonary oedema. May cause

drowsiness and dizziness.

Indication of any immediate medical attention and

special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician. Do NOT induce vomiting.

### **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

Advice for fire-fighters

-Suitable Extinguishing Media

-Unsuitable Extinguishing Media

Special hazards arising from the substance or

mixture

Do not use water jet. Pressurised container: May burst if heated

A self contained breathing apparatus and suitable protective clothing

Extinguish with carbon dioxide, dry chemical, foam or water spray.

should be worn in fire conditions. Keep containers cool by spraying

with water if exposed to fire.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and

emergency procedures

Eliminate sources of ignition. Avoid contact with skin and eyes. Avoid

**Environmental precautions** 

Prevent liquid entering sewers, basements and work pits.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for

disposal or recovery.

None

Reference to other sections None **Additional Information** 

#### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid contact with skin and eyes. Use product in a well-ventilated area

only. Avoid breathing spray.

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Conditions for safe storage, including any incompatibilities

-Storage temperature Keep in a cool, well ventilated place. Store at temperatures not

exceeding 50 °C / 122 °F.

-Incompatible materials This product should be stored away from sources of strong heat or

oxidizing chemicals.

Specific end use(s) Metalworking product

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Occupational Exposure Limits**

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Acetone	67-64-1	1000 ppm	250 ppm		500 ppm	
Toluene	108-88-3	200 ppm	20 ppm	300 ppm*		*10-min. Ceiling
Propane	74-98-6	1000 ppm	Aspyx.#			#
Ethyl benzene	100-41-4	100 ppm	20 ppm			
Xylene	1330-20-7	100 ppm	100 ppm		150 ppm	
n-Butyl Acetate	123-86-4	150 ppm	150 ppm		200 ppm	
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm		300 ppm	
Ethyl Acetate	141-78-6	400 ppm	400 ppm			
Isopropanol	67-63-0	400 ppm		200 ppm	400 ppm	

<sup>\*</sup>Assure minimum oxygen content of work atmosphere.

Recommended monitoring method

Exposure controls
Appropriate engineering controls

Personal protection equipment

Eye/face protection



Skin protection (Hand protection/ Other)



Respiratory protection



Thermal hazards

**Environmental Exposure Controls** 

NIOSH 1300 (Ketones I); NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C); NIOSH 1501 (Hydrocarbons, Aromatic); NIOSH 1401 (Alcohols II), NIOSH 1450 (Esters I), NIOSH 1457 (Ethyl Acetate)

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

Wear protective eyewear (goggles, face shield, or safety glasses).

Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Not normally required. Use gloves with insulation for thermal protection, when needed.

Prevent liquid entering sewers, basements and work pits.

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### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance Aerosol spray Color. Clear Odor Hvdrocarbon Odor Threshold (ppm) Not available pH (Value) Not available Melting Point (°C) / Freezing Point (°C) Not available Boiling point/boiling range (°C): Not available Flash Point (°C) Not available **Evaporation Rate** Not available

Flammability (solid, gas)

Extremely flammable aerosol.

Explosive Limit Ranges

Vapor pressure (Pascal)

Vapor Density (Air=1)

Extremely flammable aerosol.

2.1% - 9.5% v/v (Propane)

ca. 95 x 10<sup>4</sup> (Propane)

ca. 1.56 @ 0°C (Propane)

Density (g/ml) Not available Solubility (Water) Not available Solubility (Other) Not available Partition Coefficient (n-Octanol/water) Not available Auto Ignition Point (°C) Not available Decomposition Temperature (°C) Not available Kinematic Viscosity <20 mm2/s @ 40°C Not explosive. Explosive properties

Oxidizing properties Not oxidizing.

Other information Not available

#### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions

None anticipated.

Conditions to avoid

Avoid contact with heat and ignition sources.

Incompatible materials Strong oxidizing agents

Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Acrid smoke

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

 $\textbf{Exposure routes:} \ \textbf{Inhalation, Skin Contact, Eye Contact}$ 

Information on toxicological effects

Acetone (CAS No. 67-64-1)

Acute toxicity Oral LD50 = 5800 mg/kg (rat)

Dermal LD50 >15800 mg/kg (rabbit)

Inhalation LC50 76 mg/L (4 hour(s)) (rat) - Vapours may cause

drowsiness and dizziness.

Irritation / Corrosivity Causes serious eye irritation. Repeated exposure may cause skin

dryness or cracking.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity Oral NOAEL = 900 mg/kg/day (rat) (90-days)

Inhalation NOAEL  $\geq$  19,000 ppm (rat)

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity Negative

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Toxicity for reproduction Negative
Other information None known.

Toluene (CAS No. 108-88-3)

Acute toxicity Oral LD50 = 5580 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

Inhalation LC50 (4 hour(s)) 28.1 mg/l (rat) - Vapours may cause

drowsiness and dizziness.

Irritation / Corrosivity Causes serious eye irritation. Causes skin irritation.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity Inhalation NOAEC = 1131 mg/m³ (rat), 2 Year(s) - May cause

damage to organs through prolonged or repeated exposure: neuropsychological effects, auditory dysfunction and effects on

colour vision

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity There is no evidence of mutagenic potential.

Reproductive toxicity Suspected of damaging the unborn child. NOAEC: 2.8 mg/liter

(rat)

Methyl Ethyl Ketone (CAS No. 78-93-3)

Acute toxicity

Oral LD50 = 3460 mg/kg (rat)

Dermal LD50 >10 ml/kg (rabbit)

Inhalation LC50 >5041 ppm (6 hour(s)) (rat) - Vapours may cause

drowsiness and dizziness.

Irritation / Corrosivity Causes serious eye irritation. Unlikely to cause skin irritation.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity Inhalation NOAEL  $\geq$  5041 ppm (rat)

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity

Toxicity for reproduction

Other information

Negative

None known.

Isopropanol (CAS# 67-63-0):

Acute toxicity Oral: LD50 = 5.84 g/kg (rat)

Dermal: LD50 = 16.4 ml/kg (rabbit) 24 hour(s)

Inhalation: LC50 > 1000 ppm (rat) 6 hour(s) - Vapours may cause

drowsiness and dizziness.

 Irritation / Corrosivity
 Irritating to eyes.

 Sensitisation
 It is not a skin sensitizer.

Repeated dose toxicity NOAEL = 5,000 ppm (Inhalation) - Vapours may cause drowsiness

and dizziness

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

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Mutagenicity
Toxicity for reproduction
Other information

There is no evidence of mutagenic potential. No information available

None known.

Ethyl benzene (CAS# 100-41-4):

A3 - Confirmed Animal Carcinogen with unknown relevance to humans (ACGIH<sup>®</sup>). IARC Group 2B - Possibly carcinogenic to humans

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Toluene (CAS No. 108-88-3)

Acute toxicity LC50 (96 hour): 5.5 mg/l (*Oncorhynchus kisutch*)

EC50 (48 hour): 3.78 mg/l (Ceriodaphnia dubia)

EC50 (3 hour): 134 mg/l (Algae)

Long Term Toxicity NOEC (40 days): 1.39 mg/l (Oncorhynchus kisutch)

NOEC (7 days): 0.74 mg/l (Ceriodaphnia dubia)

Xylene (CAS No. 1330-20-7)

Acute toxicity (By analogy with similar materials) LC50 (96 hour) = 2.6 mg/l (Oncorhynchus mykiss)

IC50 (24 hour(s)) = 1 mg/l (Daphnia magna)

EC50 (73 hour(s)) = 1.9 mg/l (Pseudokirchnerella subcapitata)

Long Term IC50 (24 hour(s)) = 1 mg/l (Daphnia magna)

Persistence and degradability Biodegradable

Bioaccumulative potential The product has no potential for bioaccumulation.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the

local authority for advice.

#### **SECTION 14: TRANSPORT INFORMATION**

Sea transport Air transport U.S. DOT (IMDG) (ICAO/IATA) **UN** number 1950 1950 1950 **Proper Shipping Name** Aerosols, flammable Aerosols, flammable Aerosols, flammable Transport hazard class(es) 2.1 2.1 2.1 Packing group Not applicable Not applicable Not applicable **Environmental hazards** None assigned None assigned None assigned Special precautions for user None assigned None assigned None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Acetone	67-64-1	40 - 50	5000

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Toluene	108-88-3	1 - 10	1000
Methyl Ethyl Ketone	78-93-3	< 5	5000
n-Butyl Acetate	123-86-4	1 - 10	5000
Ethyl Acetate	141-78-6	10 - 20	5000
Ethylbenzene	100-41-4	1 - 10	1000

#### SARA 311/312 - Hazard Categories:

🛮 Fire 🔻 Sudden Release 🔲 Reactivity 🔀 Immediate (acute) 🖂 Chronic (delayed)

#### SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Toluene	108-88-3	1 - 10
Ethyl benzene	100-41-4	1 - 10
Isopropanol	67-63-0	< 5

#### SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

#### California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
Toluene	108-88-3	Developmental, Female Reproductive
Ethyl benzene	100-41-4	Cancer
Benzene*	71-43-2	Cancer; Female Reproductive
Cumene*	98-82-8	Cancer

<sup>\*</sup>Trace to none.

#### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16.

Date of preparation: July 9, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 3:

### Hazard Statement(s)

- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapor.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H336: May cause drowsiness or dizziness.
- H361: Suspected of damaging fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H401: Toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

### Training advice: None.

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