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## SAFETY DATA SHEET

# SECTION 1. IDENTIFICATION

Product identifier used on the label

: Metalex

Product Code(s) : 80-870

Recommended use of the chemical and restrictions on use

: Metal Patching Compound

Use pattern: Professional use only Recommended restrictions: None known.

Chemical family : Mixture

Name, address, and telephone number

of the supplier: Kimball Midwest 4800 Roberts Road

4800 Roberts Road Columbus, OH 43228

Supplier's Telephone # : (800) 233-1294

**24 Hr. Emergency Tel #** : Chemtrec 1-800-424-9300

# SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the chemical

Gray paste. Solvent odor.

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

### Classification:

Flammable Liquids - Category 2 Skin Irritation - Category 2

Serious eye damage/eye irritation - Category 2A

Reproductive Toxicity - Category 2

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) Specific Target Organ Toxicity, Repeated Exposure - Category 2 (CNS)

#### Label elements

Hazard pictogram(s)



Signal Word

DANGER!



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#### Hazard statement(s)

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

May cause drowsiness or dizziness.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statement(s)

Obtain special instructions before use.

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

Keep away from heat, open flames and 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 mist or vapor.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

If exposed or concerned: Get medical attention/advice.

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

Wash contaminated clothing before reuse.

If skin irritation occurs, get medical advice/attention.

If inhaled: Remove person to fresh air and keep 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 eye irritation persists: Get medical advice/attention.

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam for extinction.

Store locked up.

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

Keep cool.

Dispose of contents/container in accordance with local regulation.

#### Other hazards

No OSHA defined hazard classes.

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Mixture

<u>Chemical name</u>	Common name and synonyms	CAS#	Concentration
Aluminum powder	Not available.	7429-90-5	50.0 - 60.0
Methyl ethyl ketone	Butanone Methyl acetone		
Toluene	Methylbenzene Phenylmethane	108-88-3	5.0 - 10.0



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The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

#### SECTION 4. FIRST-AID MEASURES

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

Ingestion

: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Inhalation : If inhale

If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel

Skin contact

Immediately flush with plenty of water, while removing contaminated clothing.Immediately call a POISON CENTER or doctor/physician. Wash contaminated

clothing before reuse.

Eye contact

: For eye contact, flush with running water for at least 15 minutes. If eye irritation

persists: get medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

: Causes skin irritation. Redness, swelling, itching and dryness. May cause respiratory irritation. May cause coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Suspected of damaging fertility or the unborn child. May cause damage to the central nervous system through prolonged or repeated exposure if inhaled.

# Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. This product is a CNS depressant.

### SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog. .

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

## Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquids - Category 2

### Hazardous combustion products

: Carbon dioxide, carbon monoxide and other unidentified organic compounds.

# Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

# Special fire-fighting procedures

Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.



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## SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** 

Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

### Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

# Special spill response procedures

: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. EPA/CERCLA Reportable quantity (RQ): Toluene (1000 lbs / 454 kg)/Methyl ethyl ketone (5000 lbs / 2270 kg)

## SECTION 7. HANDLING AND STORAGE

## Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.

## Conditions for safe storage

Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.

Incompatible materials : Strong

# : Strong oxidizers, acids and bases.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH 1	<u>rlv</u>	OSHA	PEL
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	STEL
Aluminum powder	1 mg/m³ (respirable)	N/Av	15 mg/m³ (total dust); 5 mg/m³ (respirable)	N/Av
Methyl ethyl ketone	200 ppm	300 ppm	200 ppm (590 mg/m³)	N/Av
Toluene	20 ppm	N/Av	200 ppm	300 ppm (Ceiling)

# Exposure controls



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#### Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved

by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory

equipment.

Respiratory protection : If airbourne concentrations are above the permissible exposure limit or are not known,

use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection

specialists.

**Skin protection**: Wear protective gloves/clothing. Where extensive exposure to product is possible, use

resistant coveralls, apron and boots to prevent contact. Advice should be sought from

glove suppliers.

Eye / face protection : Wear chemical goggles.

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home.

Handle in accordance with good industrial hygiene and safety practice.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Gray paste.

Odour : Solvent odor.

Odour threshold : Not available.

pH : No information available.

Melting/Freezing point : Not available.

Initial boiling point and boiling range

: 79.4 - 110°C (175-230°F)

Flash point : -5-7.2°C (23 - 45°F)

Flashpoint(Method) : Closed cup
Evaporation rate (BuAe = 1) : 0.736 times faster
Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

Not available.

Upper flammable limit (% by vol.)

Not available.

Oxidizing properties: None known.Explosive properties: Not explosiveVapour pressure: Not available.

Vapour density : > 1

Relative density / Specific gravity

: 1.73

Solubility in water : N/Ap
Other solubility (ies) : N/Ap

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : No information available.

Viscosity : 2500 cSt at 40°C



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Volatiles (% by weight) : 18.71%

Volatile organic Compounds (VOC's)

: 2.74 lbs/gal

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

: None known or reported by the manufacturer.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid : Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible

substances. Do not use in areas without adequate ventilation.

**Incompatible materials**: Strong oxidizers, acids and bases.

Hazardous decomposition products

: See Section 5 (Fire Fighting Measures).

# SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES

Routes of exposure skin absorption

: YES

## **Potential Health Effects:**

## Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory tract irritation. Symptoms may include sore throat, running nose and shortness of breath. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

Sign and symptoms ingestion

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

Sign and symptoms skin : Causes skin irritation. Symptoms may include redness, edema, drying defatting and

cracking of the skin.

Sign and symptoms eyes : Causes serious eye irritation. Symptoms may include redness, pain, tearing and

conjunctivitis.

**Potential Chronic Health Effects** 

: Prolonged exposure can cause central nervous system effects.

**Mutagenicity** : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity



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: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive Toxicity - Category 2 Suspected of damaging the unborn child.

Contains Toluene. Toluene may cause fetotoxic effects at doses which are not

maternally toxic, based on animal data.

Sensitization to material Specific target organ effects : Not expected to be a skin or respiratory sensitizer.

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200)

(Hazcom 2012). Classification:

Specific target organ toxicity, single exposure - Category 3.

May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity (STOT), repeated exposure - Category 2 May cause damage to the central nervous system through prolonged or repeated exposure if inhaled.

### Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials

No information available.

Toxicological data

There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. See below for toxicological data on the substance.

	LCso(4hr)	LD <sub>50</sub>		
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Aluminum powder	> 2.3 mg/L (dust) (No mortality)	> 2000 mg/kg (No mortality)	N/Av	
Methyl ethyl ketone	11 300 ppm (33.3 mg/L (vapour)	2740 mg/kg	6480 mg/kg	
Toluene	7585 ppm (28.1 mg/L) (vapour)	5580 mg/kg	12 125 mg/kg	

## Other important toxicological hazards

: None reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Do not allow material to contaminate ground water system. See data for individual ingredient ecotoxicity data.

## Ecotoxicity data:

<u>Ingredients</u>		Toxicity to Fish					
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor			
Aluminum powder	7429-90-5	N/Av	N/Av	None.			
Methyl ethyl ketone	78-93-3	2993 mg/L (Fathead N/Av minnow)		None.			
Toluene	108-88-3	5.4 mg/L (pink salmon)	1.4 - 4.0 mg/L	None.			



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<u>Ingredients</u>	CAS No	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Aluminum powder	7429-90-5	N/Av	N/Av	None.		
Methyl ethyl ketone	78-93-3	308 mg/L (Daphnia magna)	N/Av	None.		
Toluene	108-88-3	3.78 mg/L Ceriodaphnia (water flea)	0.53 - 1 mg/L	None.		

<u>Ingredients</u>	CAS No	S No Toxicity to Algae					
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor			
Aluminum powder	7429-90-5	N/Av	N/Av	None.			
Methyl ethyl ketone	78-93-3	1972 mg/L/72hr (Green algae)	1240 mg/L/96hr	None.			
Toluene	108-88-3	N/Av	10 mg/L/72hr (Green algae)	None.			

Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential : No data is available on the product itself.

<u>Components</u>	Partition coefficent n-octanol/ater (log Kow)	Bioconcentration factor (BCF)
Methyl ethyl ketone (CAS 78-93-3)	0.29	3
Toluene (CAS 108-88-3)	2.73	N/Av

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: None known.

## SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local

regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the

criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and

federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION							
Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label		
49CFR/DOT	UN1263	Paint	3	II	₹ <u>₹</u>		



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49CFR/DOT Additional information	Special provision 149 allows this product to be shipped as a Limited Quantity. Inner package size must not exceed 5 liters (1.3 gallons) with a 30 kg gross per package.								
TDG	UN1263	PAINT		3	II	3			
TDG Additional information		ed as Limited Quantity when transp kg gross mass.	orted in containers no larger than 5.0	Litres; in pa	ckages not				
IMDG	UN1263	Paint		3	II	₹ <u>₹</u>			
IMDG Additional information		ed as Limited Quantity when transp kg gross mass.	orted in containers no larger than 5.0	Litres; in pac	ckages not				
ICAO/IATA	UN1263	Paint		3	II	3			
ICAO/IATA Additional information	Refer to the a	appropriate Packing Instruction, prio	r to shipping this material.						

Special precautions for user

: Appropriate advice on safety must accompany the package.

**Environmental hazards** 

See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

## SECTION 15 - REGULATORY INFORMATION

## **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Se 372, Specific To	,	
<u>Ingredients</u>	CAS#	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Aluminum powder	7429-90-5	Yes	None.	None.	Yes	1%	
Methyl ethyl ketone	78-93-3	Yes	5000 lb/ 2270 kg	None.	No	N/Ap	
Toluene	108-88-3	Yes	1000 lb/ 454 kg	None.	Yes	1%	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

## **US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:



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<u>Ingredients</u>	CAS#	California	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI	
Aluminum powder	7429-90-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes	
Methyl ethyl ketone	78-93-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes	
Toluene	108-88-3	No	Developmental	Yes	Yes	Yes	Yes	Yes	Yes	

### **Canadian Information:**

Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

### **International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Aluminum powder	7429-90-5	231-072-3	Present	Present	Not listed	KE-00881	Present	HSR001263 (coated, PGII); HSNO Approval: HSR001471, HSR001473 (coated, PGIII); HSNO Approval: HSR001474 (pyrophoric); HSNO Approval: HSR001472 (uncoated, PGII)
Methyl ethyl ketone	78-93-3	201-159-0	Present	Present	(2)-542	KE-24094	Present	HSR001190
Toluene	108-88-3	203-625-9	Present	Present	(3)-2	KE-33936	Present	HSR001227

# SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
ECHA: European Chemicals Agency

ECOTOX: U.S. EPA Ecotoxicology Database

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer



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IBC: Intermediate Bulk Container

IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods

IOC: Inventory of Chemicals

IUCLID: International Uniform ChemicaL Information Database

KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List

LC: Lethal Concentration

LD: Lethal Dose MA: Massachusetts MN: Minnesota N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet / Material Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2015.

- 2. International Agency for Research on Cancer Monographs, searched 2015.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015

(Chempendium, HSDB and RTECs).

- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists 2015 version.
- 6. California Proposition 65 List -2015 version

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## Other special considerations for handling

: Provide adequate information, instruction and training for operators.



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## Prepared for:

Kimball Midwest 4800 Roberts Road Columbus, OH 43228



## Prepared by:

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