

## MATERIAL SAFETY DATA SHEETS (MSDS)

Prepared by Chief Executive Office, Risk Management Branch Loss Control and Prevention Section 3333 Wilshire Blvd., Suite 1000, Los Angeles, CA 90010 Call (213) 738-2269 for additional information

Title 8, California Code of Regulations, Section 5194 (Hazard Communication) [http://www.dir.ca.gov/Title8/5194.html] requires employers to inform and train employees on the hazardous substances to which they may be exposed at their workplace. To comply with this requirement, County departments should acquire and maintain copies of material safety data sheets (MSDS) for each hazardous substance in their respective workplace(s) and should ensure that the MSDSs are readily accessible to employees during each work shift. MSDSs may be maintained in paper or electronic form, but must be organized such that individual data sheets can be located when needed. If employees must travel between workplaces during a work shift, the MSDSs may be kept at the primary workplace, but should be readily available in an emergency.

MSDSs are reference guides that provide information on hazardous substances including, but not limited to, health hazards, chemical and physical characteristics, first aid and safe handling procedures of the substance. MSDSs must be in English and should contain the following information:

- (A) The identity used on the label, chemical and common name(s) and Chemical Abstracts Service (CAS) number(s) of the hazardous substance.
- (B) Physical and chemical properties of the hazardous substance (such as vapor pressure and flash point).
- (C) The physical hazards of the hazardous substance, including the potential for fire, explosion, and reactivity.
- (D) The health hazards of the hazardous substance, including signs and symptoms of exposure, and any medical conditions which are generally recognized as being aggravated by exposure to the substance.
- (E) The potential route(s) of entry.
- (F) The Cal/OSHA permissible exposure limit (PEL), ACGIH Threshold Limit Value (TLV), and any other exposure limit used or recommended by the manufacturer, importer, or employer preparing the MSDS, where available.
- (G) Whether the hazardous substance is listed in the National Toxicology Program (NTP) Sixth Annual Report on Carcinogens or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-53 and Supplements 1-8, or by OSHA.

- (H) Any generally applicable precautions for safe handling and use which are known to the manufacturer, importer, or employer preparing the MSDS, including the appropriate hygienic practices, protective measures during repair and maintenance of contaminated equipment, and procedures for cleanup of spills and leaks.
- (I) Any generally applicable control measures which are known to the manufacturer, importer or employer preparing the MSDS, such as appropriate engineering controls, work practices, or personal protective equipment (PPE).
- (J) Emergency and first-aid procedures.
- (K) The date of preparation or revision of the MSDS.
- (L) The name, address and telephone number of the manufacturer, importer, employer, or other responsible party preparing or distributing the MSDS, who can provide additional information on the hazardous substance and appropriate emergency procedures, if necessary.
- (M) A description in lay terms, if not otherwise provided, on either a separate sheet or with the body of the information specified in this section, of the specific potential health risks posed by the hazardous substance intended to alert any person reading the information.



## **SAMPLE MSDS (page 1)**



Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072

IDENTITY (As used on Label and List) Methyl Ethyl Ketone (MEK)	Note: Blank spaces are not permitted, if any item is not applicable, or no information is available, the space must be marked to indicate that.						
Section I							
Manufacturer's Name		Emergency Te	elephone Number				
XYX Chemical Company			123-4566				
Address (Number, Street, City, State, and ZIP Code) 111 Main Street		(204)	Telephone Number for Information (204) 123-4522				
New York, NY 10012		Date Prepared January 5, 1990					
	Signature of Preparer (optional)  John Doe						
Section II — Hazardous Ingredients/Identity	Information						
Hazardous Components (Specific Chemical Identity; Co.	mmon Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optiona		
Methyl Ethyl Ketone (2-butan	none)	200 ppm	200 ppm	N/A	100%		
CAS No. 78-93-3			E				
4		27-28	10.00				
			11111111111				
Section III — Physical/Chemical Characteris Boiling Point  4 760 mm HG	T	Specific Gravit	ly (H <sub>2</sub> O = 1)		0.8061		
Boiling Point  @ 760 mm HG  Vapor Pressure (mm Hg.)	175.3°F	Specific Gravit	ly (H <sub>2</sub> O = 1)		0.8061		
Boiling Point @ 760 mm HG	175.3°F	Melting Point  Evaporation R	ate		N/A		
Boiling Point @ 760 mm HG Vapor Pressure (mm Hg.) @ 20°C Vapor Density	175.3°F	Melting Point	ate		100000		
Boiling Point @ 760 mm HG  Vapor Pressure (mm Hg.) @ 20°C  Vapor Density  Solubility in Water  Appreciable = 24%	175.3°F	Melting Point  Evaporation R	ate		N/A		
Boiling Point  @ 760 mm HG  Vapor Pressure (mm Hg.) @ 20°C  Vapor Density  Solubility in Water  Appreciable = 24%  Appearance and Odor	175.3°F 70mmHg 2.5	Melting Point  Evaporation R. (Butyl Acetate =	ate 1)		N/A		
Boiling Point @ 760 mm HG  Vapor Pressure (mm Hg.) @ 20°C  Vapor Density  Solublity in Water	175.3°F 70mmHg 2.5	Melting Point  Evaporation R. (Butyl Acetate =	ate 1)		N/A		
Boiling Point  @ 760 mm HG  Vapor Pressure (mm Hg.) @ 20°C  Vapor Density  Solubility in Water Appreciable = 24%  Appearance and Odor Clear liquid with sw  Section IV — Fire and Explosion Hazard Da  Flash Point (Method Used)	175.3°F 70mmHg 2.5 reet odor sin	Melting Point  Evaporation R (Butyl Acetate =	ate 1) cetone	LEL 1 9	N/A 5.7		
Boiling Point @ 760 mm HG Vapor Pressure (mm Hg.) @ 20°C Vapor Density  Solubility in Water	175.3°F 70mmHg 2.5 reet odor sin	Melting Point  Evaporation R (Butyl Acetate =	ate 1) cetone nits by volume	LEL 1.8	N/A 5.7		
Boiling Point  @ 760 mm HG  Vapor Pressure (mm Hg.) @ 20°C  Vapor Density  Solubility in Water Appreciable = 24%  Appearance and Odor Clear liquid with sw  Section IV — Fire and Explosion Hazard Da  Flash Point (Method Used) Tag. Open Cup = 2	175.3°F 70mmHg 2.5 reet odor sin	Melting Point  Evaporation R (Butyl Acetate =	ate 1) cetone nits by volume		N/A 5.7		
Boiling Point  @ 760 mm HG  Vapor Pressure (mm Hg.) @ 20°C  Vapor Density  Solubility in Water	175.3°F 70mmHg 2.5 eet odor sinta 22°F chemical fo	Melting Point  Evaporation R (Butyl Acetate =	ate 1) cetone nits by volume		N/A 5.7		
Boiling Point  @ 760 mm HG  Vapor Pressure (mm Hg.) @ 20°C  Vapor Density  Solubility in Water	175.3°F 70mmHg 2.5 eet odor sinta 22°F chemical for	Melting Point  Evaporation R (Butyl Acetate = milar to acetate = milar	cetone nits by volume	1.8	N/A 5.7 UEL 10		
Boiling Point @ 760 mm HG Vapor Pressure (mm Hg.) @ 20°C Vapor Density  Solubility in Water Appreciable = 24%  Appearance and Odor Clear liquid with sw  Section IV — Fire and Explosion Hazard Da Flash Point (Method Used) Tag. Open Cup = 2  Extinguishing Media Use carbon dioxide or dry Use alcohol-type foams for Special Fire Fighting Procedures Self-contained (NIOSH	175.3°F 70mmHg 2.5 reet odor sinta 22°F chemical for large fire	Melting Point  Evaporation R (Butyl Acetate =  milar to ac  Flammable Lin	ate 1) cetone nits by volume res. apparatus an	1.8	N/A 5.7 UEL 10		
Boiling Point @ 760 mm HG Vapor Pressure (mm Hg.) @ 20°C Vapor Density  Solubility in Water Appreciable = 24%  Appearance and Odor Clear liquid with sw  Section IV — Fire and Explosion Hazard Da Flash Point (Method Used) Tag. Open Cup = 2  Extinguishing Media Use carbon dioxide or dry Use alcohol-type foams for Spacial Fire Fighting Procedures Self-contained (NIOSH Clothing should be us	175.3°F 70mmHg 2.5 reet odor sinta 22°F chemical for large fire	Melting Point  Evaporation R (Butyl Acetate =  milar to ac  Flammable Lin	ate 1) cetone nits by volume res. apparatus an	1.8	N/A 5.7 UEL 10		
Boiling Point @ 760 mm HG Vapor Pressure (mm Hg.) @ 20°C Vapor Density  Solubility in Water Appreciable = 24%  Appearance and Odor Clear liquid with sw  Section IV — Fire and Explosion Hazard Da  Flash Point (Method Used) Tag. Open Cup = 2  Extinguishing Media Use carbon dioxide or dry  Use alcohol-type foams for  Special Fire Fighting Procedures Self-contained (NIOSH	175.3°F 70mmHg 2.5  meet odor sinta 22°F chemical for large fire 4-approved) sed in all f	Melting Point  Evaporation R (Butyl Acetate = milar to acetate = milar	cetone  mits by volume  res.  apparatus an	1.8 d protective	N/A 5.7 UEL 10		

## **SAMPLE MSDS (page 2)**

Stability   Unstable	Section V-	-Reactivity Da	ta						
None	Stability	Unstable		Conditions to Avoid					
Compatibility (Mesense & Avoid)   May react with oxidizing agents and/or organic peroxides. Avoid alkaline materials, mineral acids and halogens.		Stable		None			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
alkaline materials, mineral acids and halogens, maradous becomposition of pyroducis Burning can produce carbon monoxide and/or carbon dioxide.  Burning carbon carbon carbon carbon carbon dioxide.  Burning carbon car	compatibility (	(Materials to Avoid)	May	react with ox:	idizing age	nts and/or on	rganic pero	xides. A	void
Burning can produce carbon monoxide and/or carbon dioxide.  Will Not Occur  X None  Gettion VI — Health Hazard Data  Conte(s) of Entry: Inhalation? Yes Yes Yes Yes  Will Not Occur  Acute LD <sub>10</sub> (oral rat) = 3,100 mg/kg. Inhalation: lung irritation, central nervous system effects (dizziness and headaches). Skin: irritation, central nervous system effects (dizziness and headaches). Skin: irritation, reanses, dermatitis. Eyes: irritation, redness, pain.  No N	alkaline	materials,	mine	ral acids and	halogens.	TO SOL SET STEEDING TO ST		Service Assessment	55555
Conditions to Avoid   Color   Conditions to Avoid   Color				on monovide a	nd/or carbo	n diovide			
None			Carb		na/or carbo	ii dioxide.			
Section VI — Health Hazard Data				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
Section VI — Health Hazard Data  Conte(s) of Entry:  Inhalation?  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye		Will Not Occur	v	None					
Inhabation	ection VI	Health Hazard		None					
Yes   Yes   Yes   Yes   Yes   Yes				alation?	Skin		Ingestio	n?	
Acute LD <sub>50</sub> (oral rat) = 3.100 mg/kg. Inhalation: lung irritation, reather, nervous system effects (dizziness and headaches). Skin: irritation, rashes, dermatitis. Eyes: irritation, redness, pain.  Cardingenicity.  NPP?  NO  NO  NO  NO  NO  NO  NO  NO  NO  N	(oute(s) of Ent	ry.	unit				mgostio		
nervous system effects (dizziness and headaches). Skin: irritation, rashes, dermatitis. Eyes: irritation, redness, pain.  Carcinogenicity:  NTP?  NO  NO  NO  NO  NO  NO  NO  NO  NO  N	lealth Hazards	(Acute and Chronic	)	and a second	Over courses	New York of the Control	vieni vizini evite	Secretary Land	11
Carmatitis. Eyes: irritation, redness, pain.  Acknowledge NTP?  No N	A	cute LD <sub>50</sub> (	oral r	(at) = 3,100  m	g/kg. Inhal	ation: lung	irritation,	central	
No	nervou	itis Eves	irri	tation, redne	nd neadache ss. pain.	s). Skin: II.	rication, r	asnes,	
Signs and Symptoms of Exposure Inhalation: irritation of respiratory tract, coughing, headache, nausea. Skin: Dryness, redness, rashes. Eyes: irritation, pain, conjunctivitis (redness). Ingestion: abdominal spasms, nausea, vomiting. Medical Conditions Generally Aggravated by Exposure None known. Emergency and First Aid Procedures Inhalation: move to fresh air, provide oxygen, obtain medical help. Eyes: flush with water for at least 15 minutes, obtain medical help if irritation persists. Skin: thoroughly wash affected areas with water, remove contaminated clothing, obtain medical help if irritation persists or large body areas are affected. Ingestion: give water to drink, obtain medical help.  Section VII — Precautions for Safe Handling and Use Steps to Be Taken in Case Material's Released or Spilled Collect leaking liquid in sealable containers. Absorb spilled liquid in sand or inert absorbent and remove to a safe place. Cleanup personnel should wear protective clothing, including a self-contained respirator. Avoid contact with the skin. Remove all sources of ignition.  Waste Disposal Method Consult a licensed waste disposal service firm for disposal in accordance with all federal, state and local regulations.  Precautions to Be Taken in Handling and Storing Drums must be grounded and electrically bonded to the receiving vessel while dispensing in order to avoid static sparks. Store away from oxidizing agents, heat and ignition sources. Handle small quantities in approved safety cans. Handle as a class IB flammable liquid.  Diner Precautions Good Personal hygiene practices should always be followed.  Section VIII — Control Measures  Respiratory Protection (Specify Type) Not required if concentration is below PEL. At higher concentrations, NIOSH-approved respirator with organic vapor filter should be worn Special All electrical equipment must be non-sparking  Other Precautions  Other Precautions  Chemical goggles and/or face shield.					IAR	Monographs?	OSHA	Regulated?	
Totalation: irritation of respiratory tract, coughing, headache, nausea, Skin: Dryness, redness, rashes. Eyes: irritation, pain, conjunctivitis (redness). Ingestion: abdominal spasms, nausea, vomiting.  Medical Conditions  Menerally Aggravated by Exposure  Mone known.  More respective of First Aid Procedures Inhalation: move to fresh air, provide oxygen, obtain medical help. Eyes: flush with water for at least 15 minutes, obtain medical help if irritation persists. Skin: thoroughly wash affected areas with water, remove contaminated clothing, obtain medical help if irritation persists or large body areas are affected. Ingestion: give water to drink, obtain medical help.  Section VII — Precautions for Safe Handling and Use  Steps to Be Taken in Case Material is Released or Spiled  Collect leaking liquid in sealable containers. Absorb spilled liquid in sand or insert absorbent and remove to a safe place. Cleanup personnel should wear protective clothing, including a self-contained respirator. Avoid contact with the skin. Remove all sources of ignition.  Waste Disposal Method  Consult a licensed waste disposal service firm for disposal in accordance with all federal, state and local regulations.  Precautions to Be Taken in Handling and Storing Drums must be grounded and electrically bonded to the receiving vessel while dispensing in order to avoid static sparks. Store away from oxidizing agents, heat and ignition sources. Handle small quantities in approved safety cans. Handle as a Class 1B flammable liquid.  Dother Precautions  Good Personal hygiene practices should always be followed.  Section VIII — Control Measures  Respiratory Protection (Specify Type)  Not required if concentration is below PEL. At higher concentrations, NIOSH-approved respirator with organic vapor filter should be worm concentrations. NIOSH-approved respirator with organic vapor filter should be worm specified.  Dieter Protection (Specify Type)  Not required for high concentrations.  Eye Protection  Chemical goggles and/or face shield.	(B) (S) (B) (B) (B)		150	No		No		No	
Dryness, redness, rashes. Eyes: irritation, pain, conjunctivitis (redness). Ingestion: abdominal spasms, nausea, vomiting.   Medical Conditions				of reenirator	tract co	ighing heads	che nausea	skin.	
Medical Conditions   None known   None kno	Dryness	redness.	rashes	Eves: irrit	ation, pair	. conjunctiv	vitis (redne	ess).	
Senerally Aggravated by Exposure   None known.	Ingestic	on: abdomin	al spa	asms, nausea,	vomiting.			55 To 1	
Emergency and First Aid Procedures Inhalation: move to fresh air, provide oxygen, obtain medical help. Eyes: flush with water for at least 15 minutes, obtain medical help if irritation persists. Skin: thoroughly wash affected areas with water, remove contaminated clothing, obtain medical help if irritation persists or large body areas are affected. Ingestion: give water to drink, obtain medical help.  Section VII — Precautions for Safe Handling and Use  Steps to Be Taken in Case Material is Released or Spilled Collect leaking liquid in sealable containers. Absorb spilled liquid in sand or inert absorbent and remove to a safe place. Cleanup personnel should wear protective clothing, including a self-contained respirator. Avoid contact with the skin. Remove all sources of ignition.  Waste Disposal Method Consult a licensed waste disposal service firm for disposal in accordance with all federal, state and local regulations.  Precautions to Be Taken in Handling and Storing Drums must be grounded and electrically bonded to the receiving vessel while dispensing in order to avoid static sparks. Store away from oxidizing agents, heat and ignition sources. Handle small quantities in approved safety cans. Handle as a class 1B flammable liquid.  Other Precautions Good Personal hygiene practices should always be followed.  Section VIII — Control Measures  Respiratory Protection (Specify Type) Not required if concentration is below PEL. At higher concentrations, NIOSH-approved respirator with organic vapor filter should be worm Ventilation  Local Exhaust Required for high concentrations.  Mechanical (General)  Protective Gloves  Rubber.  Other  Chemical goggles and/or face shield.	Medical Conditi	ions							
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Contaminated clothing, obtain medical help if irritation persists or large body areas are affected. Ingestion: give water to drink, obtain medical help.  Section VII — Precautions for Safe Handling and Use  Steps to Be Taken in Case Material is Released or Spilled Collect leaking liquid in sealable containers. Absorb spilled liquid in sand or inert absorbent and remove to a safe place. Cleanup personnel should wear protective clothing, including a self-contained respirator. Avoid contact with the skin. Remove all sources of ignition.  Waste Disposal Method Consult a licensed waste disposal service firm for disposal in accordance with all federal, state and local regulations.  Precautions to Be Taken in Handling and Storing Drums must be grounded and electrically bonded to the receiving vessel while dispensing in order to avoid static sparks. Store away from oxidizing agents, heat and ignition sources. Handle small quantities in approved safety cans. Handle as a Class 1B flammable liquid.  Duber Precautions  Good Personal hygiene practices should always be followed.  Section VIII — Control Measures  Respiratory Protection (Specify Type) Not required if concentration is below PEL. At higher concentrations, NIOSH-approved respirator with organic vapor filter should be worm Ventilation  Local Exhaust Required for high concentrations.  Special All electrical equipment must be Class 1, Group D; fans must be non-sparking  Other  Protective Gloves  Rubber.  Other Protection  Chemical goggles and/or face shield.	irritat	ion persist	s. Sk	in: thoroughly	wash affe	cted areas wi	th water, n	remove	
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Collect leaking liquid in sealable containers. Absorb spilled liquid in sand or inert absorbent and remove to a safe place. Cleanup personnel should wear protective clothing, including a self-contained respirator. Avoid contact with the skin. Remove all sources of ignition.  Waste Disposal Method Consult a licensed waste disposal service firm for disposal in accordance with all federal, state and local regulations.  Precautions to Be Taken in Handling and Storing Drums must be grounded and electrically bonded to the receiving vessel while dispensing in order to avoid static sparks. Store away from oxidizing agents, heat and ignition sources. Handle small quantities in approved safety cans. Handle as a Class 1B flammable liquid.  Other Precautions  Good Personal hygiene practices should always be followed.  Section VIII — Control Measures  Respiratory Protection (Specity Type) Not required if concentration is below PEL. At higher concentrations, NIOSH-approved respirator with organic vapor filter should be worn Ventilation  Local Exhaust Required for high concentrations.  Required for high concentrations.  Dispersional Republication (General)  Other Protective Gloves  Rubber.  Other Protective Clothing or Equipment	areas a	re affected	. Inge	estion: give v	water to dr	ink, obtain m	nedical help	р.	
Steps to Be Taken in Case Material's Released or Spilled Collect Leaking liquid in sealable containers. Absorb spilled liquid in sand or inert absorbent and remove to a safe place. Cleanup personnel should wear protective clothing, including a self-contained respirator. Avoid contact with the skin. Remove all sources of ignition.  Waste Disposal Method Consult a licensed waste disposal service firm for disposal in accordance with all federal, state and local regulations.  Precautions to Be Taken in Handling and Storing Drums must be grounded and electrically bonded to the receiving vessel while dispensing in order to avoid static sparks. Store away from oxidizing agents, heat and ignition sources. Handle small quantities in approved safety cans. Handle as a Class 1B flammable liquid.  Other Precautions Good Personal hygiene practices should always be followed.  Section VIII — Control Measures  Respiratory Protection (Specity Type) Not required if concentration is below PEL. At higher concentrations, NIOSH-approved respirator with organic vapor filter should be worn Ventilation  Local Exhaust Required for high concentrations.  Discolar Protective Gloves Rubber.  Other Protective Gloves Rubber.  Other Protective Clothing or Equipment  Discolar Exhaust Chemical goggles and/or face shield.		- 4000000							
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Consult a licensed waste disposal service firm for disposal in accordance with all federal, state and local regulations.  Precautions to Be Taken in Handling and Storing Drums must be grounded and electrically bonded to the receiving vessel while dispensing in order to avoid static sparks. Store away from oxidizing agents, heat and ignition sources. Handle small quantities in approved safety cans. Handle as a Class 1B flammable liquid.  Other Precautions Good Personal hygiene practices should always be followed.  Section VIII — Control Measures  Respiratory Protection (Specity Type) Not required if concentration is below PEL. At higher concentrations, NIOSH-approved respirator with organic vapor filter should be worn Ventilation  Local Exhaust Required for high concentrations.  Mechanical (General)  Other  Protective Gloves Rubber.  Other Protective Clothing or Equipment	skin. R	emove all s	ource	s of ignition.					
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Required for high concentrations. be Class 1, Group D; fans must be non-sparking  Other  Protective Gloves Rubber.  Other  Eye Protection Chemical goggles and/or face shield.	concent	rations, NI	OSH-a	pproved respin	rator with	organic vapor	r filter sho	ould be	
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Other Protective Clothing or Equipment							and/or fac	e shield	d.
	Other Protectiv	ve Clothing or Equ		STOTO ASSESSMENTS	eventier were	construction of			
Work/Hygienic Practices	Eye-was	h fountains		ety showers, l	barrier cre	ams, etc.			