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Revision Date: 05/06/04

I. PRODUCT IDENTIFICATION

Catalog Number / Product Name: 32024, 32024-5XX, & 32124 / 505 Organohalide Pesticide Mix

Revision Number: 2

Prior Version Date: 10/01/01

Intended use: For Laboratory use only

II. COMPOSITION/INFORMATION ON INGREDIENTS AND CONTROL PARAMETERS:

Chemical Name	CAS#	% Composition	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limits
methanol	67-56-1	99.680000	6000 ppm	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260
			IDLH			mg/m3 TWA
atrazine	1912-24-9	0.020000	ND		No TLV	No PEL established
aldrin	309-00-2	0.020000	ND		No TLV	0.25 mg/m3 TWA
heptachlor epoxide	1024-57-3	0.020000	ND		No TLV	No PEL established
alachlor	15972-60-8	0.020000	ND		No TLV	No PEL established
cis-chlordane	5103-71-9	0.020000	ND		No TLV	No PEL established
endrin	72-20-8	0.020000	ND		No TLV	0.1 mg/m3 TWA
dieldrin	60-57-1	0.020000	ND		No TLV	0.25 mg/m3 TWA
methoxychlor	72-43-5	0.020000	ND		No TLV	15 mg/m3 TWA (total
						dust)
trans-chlordane	5103-74-2	0.020000	ND		No TLV	No PEL established
gamma-BHC	58-89-9	0.020000	ND		No TLV	0.5 mg/m3 TWA
heptachlor	76-44-8	0.020000	ND		No TLV	0.5 mg/m3 TWA
hexachlorocyclopentadiene	77-47-4	0.020000	ND		No TLV	No PEL established
simazine	122-34-9	0.020000	ND		No TLV	No PEL established
hexachlorobenzene	118-74-1	0.020000	ND		No TLV	No PEL established
cis-nonachlor	5103-73-1	0.020000	ND		No TLV	No PEL established
trans-nonachlor	39765-80-5	0.020000	ND		No TLV	No PEL established

III. HAZARDS IDENTIFICATION

Target Organs Potentially Affected by Exposure: skin, eyes, CNS, GI tract, respiratory system

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs) Methanol can cause central nervous system

depression and overexposure can cause damage to the optic nerve resulting in visual impairment or

blindness.

Skin Contact:Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.Eye Contact:Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.Ingestion Irritation:Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and

diarrhea. Highly toxic and may be fatal if swallowed.

Ingestion Toxicity: Toxic if swallowed. May cause target organ failure and/or death.

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data

Reproductive and Developmental Toxicity: No data available to indicate product or any components present at greater

than 0.1% may cause birth defects.

Mutagenicity: No data available to indicate product or any components present at greater

than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory

irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see

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"Target Organs)

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation,

defatting, and dermatitis. Not likely to cause permanent damage.

Toxic if swallowed. May cause target organ failure and/or death.

IV. FIRST-AID MEASURES

Ingestion:

Eyes:

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give

artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation

develops or persists

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute.

Provide medical care provider with this MSDS.

Notes to Doctor: No additional first aid information available

V. FIRE FIGHTING MEASURES

Flammability Summary: Highly Flammable

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents.

Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being

damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is

above the flash point giving rise to a fire (Class B). Vapors are heavier than air and

may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing

apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and

burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Flash Point: 11 deg. C
Autoignition Temperature: 464 deg. C
Upper Flammable/Explosive Limit, % in air: 36.0
Lower Flammable/Explosive Limit, % in air: 6.0

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid

breathing the material. Use only in a well ventilated area. Use spark-

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proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible

materials and conditions. Keep container(s) closed. Keep away from

sources of ignition

Recommended storage: Refrigerate.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other

engineering controls to minimize exposures and maintain operator comfort.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or

local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section III, provide

respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear

contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals.

Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water

before eating, drinking, and when leaving work

Gloves: No information available

IX. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Mild

Solubility in Water: Moderate; 50-99%

Vapor Density:

Melting Point:-98 C Melting PointSpecific Gravity:0.791-0.792 g/cm3 at 20 C

X. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

Chemical Name CAS Number LD50/LC50

Methanol 67-56-1 Inhalation LC50 Rat: 64000 mg/kg/4H; Oral LD50 Rat: 5628 mg/kg;

Oral LD50 Mouse: 7300 mg/kg; Dermal LD50 Rabbit: 15800 mg/kg

Component Carcinogenic data (OSHA):

XII. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Mobility:No dataPersistence:No dataBioaccumulation:No data

Degradability: Biodegrades slowly. **Ecological Toxicity Data:** 0

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial

regulations.

Waste Disposal Code(s): D001

XIV. TRANSPORTATION INFORMATION

DOT Basic Description: Methanol **UN Number:** UN# 1230

XV. REGULATORY INFORMATION

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	_	X
atrazine	1912-24-9		X	-	X
aldrin	309-00-2		X	X	-
heptachlor epoxide	1024-57-3		-	-	-
alachlor	15972-60-8		X	-	-
cis-chlordane	5103-71-9		-	_	_
endrin	72-20-8		-	X	_
dieldrin	60-57-1		-	_	_
methoxychlor	72-43-5		X	_	_
trans-chlordane	5103-74-2		-	_	_
gamma-BHC	58-89-9		X	X	X
heptachlor	76-44-8		X	_	_
hexachlorocyclopentadiene	77-47-4		X	X	X
simazine	122-34-9		X		X
hexachlorobenzene	118-74-1		X	_	X
cis-nonachlor	5103-73-1		_	_	_
trans-nonachlor	39765-80-5		_	_	_

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS#	Regulation	% Range	
Aldrin	309-00-2	Prop 65 Cancer	0.01 - 0.1	
Heptachlor epoxide	1024-57-3	Prop 65 Cancer	0.01 - 0.1	
Alachlor	15972-60-8	Prop 65 Cancer	0.01 - 0.1	
Dieldrin	60-57-1	Prop 65 Cancer	0.01 - 0.1	
Lindane	58-89-9	Prop 65 Cancer	0.01 - 0.1	
Heptachlor	76-44-8	Prop 65 Cancer	0.01 - 0.1	
Hexachlorobenzene	118-74-1	Prop 65 Cancer	0.01 - 0.1	
Endrin	72-20-8	Prop 65 Devolop Tox	0.01 - 0.1	
Heptachlor	76-44-8	Prop 65 Devolop Tox	0.01 - 0.1	
Hexachlorobenzene	118-74-1	Prop 65 Devolop Tox	0.01 - 0.1	

XVI. ADDITIONAL INFORMATION

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