Safety Data Sheet

Part Number 326705

Section 1. Substance Identity and Company Contact Information

Product Name	Hexane with 50-150 ppm Pesticide Standard Mix	**Product Part Number(s)**	234023 and 222893
Trade Name	Pesticide Standard Mix	**Unit Size**	1 mL
Company	OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, Phone: (979) 690-1711, Fax: (979) 690-0440		

Emergency No. 1-800-424-9300 (Chemtrec). Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

Section 2. Hazards Identification

Pictogram(s)

Signal Word	Danger	
Precautionary Statement(s)	Fatal if swallowed. Flammable liquid and vapor. Harmful if inhaled.	
Emergency Overview	Causes irritation to skin, eyes, and respiratory tract. Affects the central and peripheral nervous systems.	
Target Organ(s)	Not data available	
Potential Health Effects	Eye:	Vapors may cause irritation. Splashes may cause severe irritation with stinging, tearing, redness, and pain.
	Skin:	Irritating due to defatting action on skin. Causes redness, pain, drying and cracking of the skin.
	Ingestion:	Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amounts may produce abdominal pain, nausea, and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency.
	Inhalation:	Inhalation of vapors irritate the respiratory tract. May cause coughing, dizziness, dullness, and headache. Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness.
Chronic Effects/ Carcinogenicity	IARC:	Not data available
	NTP:	Not data available
	OSHA:	Not data available
Teratology (Birth Defects) Information	Not data available	
Reproductive Information	Not data available	

NFPA Ratings	Health:	1
	Flammability:	3
	Reactivity:	0
	Special Notice Key:	Not data available
HMIS Rating	Health:	2
	Flammability:	3
	Reactivity:	0
	Protective Equipment:	Not data available

Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazard Data	
			ACGIH TLV	OSHA PEL
Hexane (*n*-hexane)	110-54-3	98	180 mg/m^3	500 ppm
Acetone	67-64-7	2	750 ppm	750 ppm
g-BHC (Lindane)	58-89-9	0.5 µg/mL	Not data available	0.5 mg/m^3 (skin)
Chlorpyrifos (Dursban)	2921-88-2	1.5 µg/mL	Not data available	0.2 mg/m^3 (skin)
Phorate	298-02-2	0.5 µg/mL	Not data available	0.05 mg/m^3
Azobenzene	103-33-3	1.5 µg/mL	Not data available	Not data available
Atrazine	1912-24-9	0.5 µg/mL	Not data available	5 mg/m^3
Diazinon	333-41-5	1.5 µg/mL	Not data available	0.1 mg/m^3 (skin)

Section 4. First Aid Measures

General Advice	Not data available
If Inhaled	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In Case of Skin Contact	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In Case of Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
If Swallowed	Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician immediately.
Indication of Any Immediate Medical Attention and Special Treatment Needed	Not data available

Section 5. Fire-fighting Measures

General Information	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.
Suitable Extinguishing Media	Dry chemical, alcohol foam, or carbon dioxide. Water may be ineffective. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.
Special Hazards Arising from the Substance or mixture	Not data available
Advice for Firefighters	Extreme flammability may explode or cause flash fire.
Flash Point	-23 °C (-9 °F)

Autoignition Temperature	224 °C (435 °F)
Further Information	Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. This material may produce a floating fire hazard. Sensitive to static discharge.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures	Wear appropriate personal protective equipment as specified in Section 8.
Environmental Precautions	Not data available
Methods and Materials for Containment and Cleaning	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water, and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.
Reference to Other Sections	For disposal, see Section 13.

Section 7. Handling and Storage

Precautions for Safe Handling	Not data available
Conditions for Safe Storage, Including any Incompatibilities	Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be no smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product.
Specific End Use(s)	Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

Section 8. Exposure Controls and Personal Protection

Components with Workplace Control Parameters	Not data available
Ventilation	A system of local and/or general exhaust is recommended to keep employee exposure below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition for details.
Eye/Face Protection	Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
Skin Protection	Gloves
Body Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory Protection	If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29 CFR 1910.134).
Control of Environmental Exposure	No special environmental precautions required.

Section 9. Physical and Chemical Properties

	Hexane (C_6H_{14})	Acetone (CH_3COCH_3)
Appearance	Form: Liquid; Color: Clear, colorless	Form: Volatile Liquid; Color: Clear, colorless
Odor	Light odor	Fragrant, mint-like
Odor Threshold	Not data available	Not data available
pH	Not data available	Not data available
Melting Point/Freezing Point	ca. -95 °C (ca. 154 °F)	-95 °C (-139 °F)
Initial Boiling Point and Boiling Range	ca. -95 °C (ca. -139 °F)	56.5 °C (133 °F) @ 760 mm Hg
Flash Point	Not data available	Not data available
Evaporation Rate	Not data available	Not data available
Flammability (solid, gas)	Not data available	Not data available
Upper/Lower Flammability or Explosive Limits	Not data available	Not data available
Vapor Pressure	130 @ 20 °C (68 °F)	400 @ 39.5 °C (104 °F)
Vapor Density	3.0	2.0
Relative Density	Not data available	Not data available
Water Solubility	Insoluble in water	Miscible in all proportion of water
Partition Coefficient : n-octanol/water	Not data available	Not data available
Auto-ignition Temperature	Not data available	Not data available
Decomposition Temperature	No data available	No data available
Viscosity	No data available	No data available
Explosive Properties	No data available	No data available
Oxidizing Properties	No data available	No data available
Other Safety Information	No data available	No data available

Section 10. Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under ordinary conditions of storage and use.
Possibility of Hazardous Reactions	Carbon dioxide and carbon monoxide may form when heated to decomposition.
Conditions to Avoid	Heat, flames, ignition sources and incompatibilities
Incompatible Materials	Concentrated nitric and sulfuric acide mixtures, oxidizing materials, chloroform, alkalis, chlorine compounds, acids, potassium *t*-butoxide.

Section 11. Toxicological Information

Routes of Exposure	*On the skin:*	Not data available
	On the eye:	Not data available
	Inhalation:	Not data available
	Ingestion:	Not data available
Respiratory or Skin Sensitization	Not data available	
Signs and Symptoms of Overexposure	Not data available	
Toxicity Data	*Oral Rat*	Not data available

Section 12. Ecological Information

General Notes

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to quickly evaporate. When released into water, this material is expected to readily biodegrade. When released to water, this material is expected to quickly evaporate. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be moderately degraded by photolysis. When released into the air, this material is expected to be readily removed. This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/L.

Section 13. Disposal Considerations

Product

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and send to a RCRA-approved incinerator or disposed in a RCRA-approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

Contaminated Packaging

Not data available

Section 14. Transport Information

	Hexane	**Acetone**
DOT Shipping Name	HEXANES	ACETONE
UN Proper Shipping Name	Not data available	Not data available
DOT Hazard Class	3	3
Packing Group	II	II
UN Number	1208	1090
Hazardous Ingredients	Hexanes	Acetone
DOT Label	3 Flammable, liquid	3 Flammable, liquid
DOT Placard	3 Flammable, liquid	3 Flammable, liquid
IMDG Shipping Name	HEXANE	ACETONE
UN Number	1208	1090
Class	3	3
Packing Group	II	II
IATA Shipping Name	HEXANE	ACETONE
Technical Shipping Name	Not data available	Not data available
IATA Hazard Class	3	3
UN Number	1208	1090
Hazardous Ingredients	Hexane	Acetone
IATA Label	3 Flammable, liquid	3 Flammable, liquid
IATA Placard	3 Flammable, liquid	3 Flammable, liquid

Section 15. Regulatory Information

OSHA Status	Not data available	
TSCA Status	Not data available	
CERCLA Reportable Quantity	Not data available	
SARA Title III	Not data available	
RCRA Status	Not data available	
California Proposition 65	Not data available	
Chemical Weapons Convention	No	
TSCA 12 (b)	No	
SARA 311/312	Acute:	Yes
	Chronic:	Yes
	Fire:	Yes
	Pressure:	No
	Reactivity:	No
Australian Hazchem Code	3[Y]E	
Poison Schedule	None allocated	
WHMIS	This SDS has been prepared according to the hazard criteria of the Controlled Product Regulations (CPR) and the SDS contains all of the information required by the CPR.	

Section 16. Other Information

Date Prepared: April 14, 2004
Revised: May 19, 2015

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