



Industrial Raw Materials LLC

Safety Data Sheet

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Indra Alpha 2024

Product Description: Alpha Olefin Wax

Intended Use: Wax

COMPANY IDENTIFICATION

Supplier: Industrial Raw Materials LLC

39 West Mall
Plainview NY 11803 USA

24 Hour Health Emergency 212-688-8080

Transportation Emergency Phone 212-246-0205

Product Technical Information 212-688-8080

SDS Internet Address <http://irmwax.com>

SECTION 2

HAZARDS IDENTIFICATION

Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Emergency Overview

Danger

Form: Wax, Solid

Physical state: Solid

Color: White

OSHA Hazards: Aspiration hazard

Classification: Aspiration hazard, Category 1

Labeling



Symbol (s)

Signal Word: Danger

Hazard Statements: H304: May be fatal if swallowed and enters airways.

Precautionary Statements: **Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant

Carcinogenicity:

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Alkenes, C20-24 α -	93924-10-8	100
1-Eicosene	3452-07-1	35 - 55
1-Docosene	1599-67-3	25 - 45
1-Tetracosene	10192-32-2	10 - 26
1-Hexacosene	18835-33-1	0 - 2
1-Octadecene	112-88-9	0 - 0.1

SECTION 4 FIRST AID MEASURES

GENERAL ADVICE

Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

INHALATION

If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

EYE CONTACT

Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

IF SWALLOWED

Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Inappropriate Extinguishing Media: High volume water jet.

FIRE FIGHTING

Fire Fighting Instructions: Wear self-contained breathing apparatus for firefighting if necessary. Provide appropriate exhaust ventilation at places where dust is formed.

Hazardous Combustion Products: Oxides of carbon.

FLAMMABILITY PROPERTIES

Flash Point [Method]: 183°C (361°F) [Method: PMCC]

Autoignition Temperature: 239°C (462°F)

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

METHODS FOR CLEANING UP

Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Provide appropriate exhaust ventilation at places where dust is formed.

STORAGE

Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Hand protection	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	Dust impervious protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	When using do not eat or drink. When using do not smoke. When using do not eat or drink. When using do not smoke.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications.

GENERAL INFORMATION

Physical State: Solid

Color: White

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6°C): 0.8
Flash Point [Method: ASTM D-93]: 183°C (361°F)
Autoignition Temperature: 239°C (462°F)
Boiling Point / Range: 342 - 390°C (648 - 734°F)
Vapor Pressure: < 0.01 kPa at 65°C (149°F)
Evaporation Rate: N/A
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): No data available
Solubility in Water: Soluble in hydrocarbon solvents; insoluble in water.

Viscosity: 6.356 cSt at 40°C (104°F)
Oxidizing Properties: See Hazards Identification Section
Melting Point: 35°C (95°F)

SECTION 10	STABILITY AND REACTIVITY
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CHEMICAL STABILITY: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
CONDITIONS TO AVOID: No data available.
MATERIALS TO AVOID: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides
OTHER DATA: No decomposition if stored and applied as directed.

SECTION 11	TOXICOLOGICAL INFORMATION
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<u>Acute oral toxicity</u>	
Alkenes, C20-24 α-	LD50 Oral: > 5000 mg/kg bw Species: rat Sex: male and female Method: OECD Test Guideline 423
1-Octadecene	LD50: > 10,000 mg/kg Species: rat Sex: male and female Method: OECD Test Guideline 401 Test substance: no Information given is based on data obtained from similar substances.
<u>Acute inhalation toxicity</u>	
Alkenes, C20-24 α-	LC50: 110.1 mg/L Exposure time: 4 h Species: rat Sex: male Test atmosphere: vapor Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances.
<u>Skin irritation</u>	
Alkenes, C20-24 α-	No irritation
<u>Eye irritation</u>	
Alkenes, C20-24 α-	Vapors may cause irritation to the eyes, respiratory system

	and the skin
Serious Eye Damage/Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 405
<u>Sensitization</u>	
Alkenes, C20-24 α -	Did not cause sensitization on laboratory animals.
1-Octadecene	Did not cause sensitization on laboratory animals.
<u>Repeated dose toxicity</u>	
Alkenes, C20-24 α -	Species: rat, Male and female Sex: Male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Exposure time: 42-51 days Number of exposures: Daily NOEL: 1000 mg/kg bw/day Method: OECD Guideline 422 Species: rat, Male and female Sex: Male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Exposure time: 13 weeks Number of exposures: 7 d/wk NOEL: 1000 mg/kg bw/day Method: OCED Guideline 408 Species: rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 300, 1000, 3000 ppm Exposure time: 13 weeks Number of exposures: 5 d/wk, 6 hrs/d NOEL: 3000 ppm Method: OECD Guideline 413
1-Octadecene	Species: rat (female) Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d NOEL: 1,000 mg/kg Method: OECD Guideline 422 Information given is based on data obtained from similar substances.
<u>Reproductive Toxicity</u>	
Alkenes, C20-24 α -	Species: rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 41-55 days Method: OECD Guideline 422 NOAEL Parent: 1000 mg/kg bw/day NOAEL F1: 1000 mg/kg bw/day

	<p>Species: rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Number of exposures: Daily Test period: 42-51 days Method: OECD Guideline 421 NOAEL Parent: 1000 mg/kg bw/day NOAEL F1: 1000 mg/kg bw/day</p>
1-Octadecene	<p>Species: rat Sex: male and female Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg Information given is based on data obtained from similar substances.</p>
<u>Aspiration toxicity</u>	
Alkenes, C20-24 α -	Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
<u>CMR effects</u>	
Alkenes, C20-24 α -	<p>Carcinogenicity: Not available Mutagenicity: Did not show mutagenic effects in animal experiments. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction</p>
1-Octadecene	<p>Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Not available Reproductive toxicity: No toxicity to reproduction</p>
<u>Further information</u>	
Alkenes, C20-24 α -	Solvents may degrease the skin.
<u>Toxicity to bacteria</u>	
1-Octadecene	<p>NOEC: 3 mg/l Exposure time: 120 h Respiration inhibition</p>

OTHER INFORMATION

For the product itself: Petroleum wax: Not carcinogenic in lifetime animal skin painting or oral feeding studies. Did not cause mutations in vitro. High oral doses in one rat strain (F-344) resulted in microscopic inflammatory changes (microgranulomas) in liver, spleen, and lymph nodes, some increased organ weights, inflammation of the cardiac mitral valve, and accumulation of saturated mineral hydrocarbons in certain tissues. Non-sensitizing in animal tests and human subjects.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC

3 = IARC 1

5 = IARC 2B

2 = NTP SUS

4 = IARC 2A

6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

<u>Toxicity to fish</u>	
Alkenes, C20-24 α-	LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 The product has low solubility in the test medium. An aqueous dispersion was tested.
1-Octadecene	LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
<u>Toxicity to daphnia and other aquatic invertebrates</u>	
Alkenes, C20-24 α-	EL50: 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202
1-Octadecene	EL50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202 Information given is based on data obtained from similar substances.
<u>Toxicity to algae</u>	
Alkenes, C20-24 α-	EL50: > 1,000 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (algae) static test Method: OECD Test Guideline 201 The product has low solubility in the test medium. An aqueous dispersion was tested.
1-Octadecene	EC50: > 1,000 mg/l Exposure time: 72 h Species: Raphidocellus subcapitata (algae) Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.
<u>Toxicity to bacteria</u>	
1-Octadecene	NOEC: 3 mg/l

	Exposure time: 120 h Respiration inhibition
<u>Bioaccumulation</u>	
Alkenes, C20-24 α -	Bioconcentration factor (BCF): < 436.5 This material is not expected to bioaccumulate.
1-Octadecene	Bioconcentration factor (BCF): 5,128 Method: Estimated based on individual component values.
<u>Biodegradability</u>	
Alkenes, C20-24 α -	This material is expected to be readily biodegradable. Information given is based on data obtained from similar substances
1-Octadecene	This material is expected to be readily biodegradable. Information given is based on data obtained from similar substances
<u>Ecotoxicology Assessment</u>	
Results of PBT assessment Alkenes, C20-24 α -	Non-classified PBT substance, Non-classified vPvB substance
1-Octadecene	Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information	This material is not expected to be harmful to aquatic organisms. organisms.

SECTION 13	DISPOSAL CONSIDERATIONS
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The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14	TRANSPORT INFORMATION
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The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown

here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

SECTION 15	REGULATORY INFORMATION
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National legislation

SARA 311/312 Hazards: Acute Health Hazard

EPCRA – EMERGENCY PLANNING COMMUNITY RIGHT – TO – KNOW

CERCLA Reportable Quantity	This material does not contain any components with a CERCLA RQ
SARA 302 Reportable Quantity	This material does not contain any components with a SARA RQ
SARA 302 Threshold Planning Quantity	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 304 Reportable Quantity	This material does not contain any components with a section 304 EHS RQ.
SARA 313 Ingredients	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

Pennsylvania Right To Know	Alkenes, C20-24 α- - 93924-10-8 1-Eicosene - 3452-07-1 1-Docosene - 1599-67-3 1-Tetracosene - 10192-32-2
New Jersey Right To Know	Alkenes, C20-24 α- - 93924-10-8 1-Eicosene - 3452-07-1 1-Docosene - 1599-67-3 1-Tetracosene - 10192-32-2 1-Hexacosene - 18835-33-1
California Prop. 65 Ingredients	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

Europe REACH: On the inventory, or in compliance with the inventory

United States of America TSCA: On the inventory, or in compliance with the inventory

Canada DSL: On the inventory, or in compliance with the inventory

Australia AICS: On the inventory, or in compliance with the inventory

New Zealand NZIoC: On the inventory, or in compliance with the inventory

Japan ENCS: On the inventory, or in compliance with the inventory

Korea KECI: On the inventory, or in compliance with the inventory

Philippines PICCS: On the inventory, or in compliance with the inventory

China IECSC: On the inventory, or in compliance with the inventory

SECTION 16

OTHER INFORMATION

NFPA Classification

Health Hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

Key or legend to abbreviations and acronyms used in the safety data sheet

1 = ACGIH ALL

6 = TSCA 5a2

11 = CA P65 REPRO

16 = MN RTK

2 = ACGIH A1

7 = TSCA 5e

12 = CA RTK

17 = NJ RTK

3 = ACGIH A2

8 = TSCA 6

13 = IL RTK

18 = PA RTK

4 = OSHA Z

9 = TSCA 12b

14 = LA RTK

19 = RI RTK

5 = TSCA 4

10 = CA P65 CARC

15 = MI 293

Code key: CARC=Carcinogen; REPRO=Reproductive

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Updates made in accordance with implementation of GHS requirements.

Revision date: June 10, 2016

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