



SAFETY DATA SHEET

01. IDENTIFICATION

| | |
|-----------------------------------|-------------------------------------------------|
| NAME OF PREPARATION OR SUBSTANCE: | Carnauba Wax – T1 |
| SUPPLIER NAME: | Jedwards International, Inc. |
| SUPPLIER ADDRESS: | 141 Campanelli Drive Braintree, MA 02184 USA |
| TELEPHONE NUMBER: | (617)472-9300 |
| RECOMMENDED USE: | For manufacturing and repackaging use only |
| EMERGENCY TELEPHONE NUMBER: | Chemtrec 1-800-424-9300 (24 hrs) |

02. HAZARD IDENTIFICATION

| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MOST IMPORTANT HAZARDS: | Warning! This is expected to be low hazard for usual industrial handling. |
| PRODUCT EFFECTS: | |
| ADVERSE EFFECTS TO THE HUMAN HEALTH: | |
| ACUTE: | |
| SWALLOWED: | Ingestion of large amounts may cause gastrointestinal irritation. Data suggests that the product should be considered as non-toxic. |
| EYE: | Dust may cause mechanical irritation. |
| SKIN: | May cause skin irritation. Low hazard for industrial handling. |
| INHALED: | May cause respiratory tract irritation. Low hazard for usual industrial handling. |
| CHRONIC: | No specific data is available for the product for chronic exposure symptoms. The materials in this product are not considered to be carcinogenic. There is no data available which indicates any health hazard when used in normal circumstances. |
| TARGET ORGANS: | No data found. |
| TOXICOLOGICAL DATA ON | |
| INGREDIENTS: | Carnauba Wax LD50: Not available. LC50: Not available. |
| ENVIRONMENTAL EFFECTS: | It is not expected that the product presents danger to aquatic organisms. |
| PHYSICAL AND CHEMICAL HAZARDS: | |
| PHYSICAL STATE AND APPEARANCE: | Solid. Yellow to Dark Brown |
| CLASSIFICATION OF THE SUBSTANCE | |
| OR MIXTURE: | Regulation 1272:2008 (GHS) |



ACUTE TOXICITY –

ORAL:

Category not available (LC50: Not available. No known acute effects of this product resulting from ingestion).

SKIN CORROSION/IRRITATION:

Category not available. No known acute effects of this product resulting from skin contact.

SERIOUS EYE DAMAGE:

Category not available. No known acute effects of this product resulting from eye contact.

SPECIFIC TARGET ORGAN TOXICITY
FOLLOWING SINGLE EXPOSURE:

Category not available. Single exposure is not known to aggravate medical condition.

SPECIFIC TARGET ORGAN TOXICITY
FOLLOWING REPEATED EXPOSURE:

Category not available. Repeated or prolonged exposure is known to aggravate medical condition. This material is not known to cause cancer in animal or humans. Additional information see Toxicological Information (Section 11).

CARCINOGENIC EFFECTS:

LABEL ELEMENTS ACCORDING TO REGULATION 1272:2008 (GHS) SYMBOL:

GHS PICTOGRAMS AND HAZARD CLASSES:

Not applicable

SIGNAL WORD:

Caution!

HAZARD STATEMENT:

This material is not likely to be harmful.

PRECAUTION STATEMENT:

P102:

Keep out of the reach of children.

P281:

Use personal protective equipment as required.

P403:

Store in a well-ventilated place.

P410:

Protect from sunlight.

P411:

Store at room temperature without humidity control.

P501:

Dispose of contents/container in accordance to local legislation.

LABEL ELEMENTS ACCORDING TO DIRECTIVE 67/548/EEC

SYMBOL:

Not applicable.

RISK PHRASES:

Not Applicable.

SAFETY PHRASES:

S2:

Keep out of the reach of children.

S9:

Keep container in a well-ventilated place.

S22:

Do not breathe dust.

S25:

Avoid contact with eyes.

S26:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S41:

In case of fire and/or explosion do not breathe fumes.



03. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

CHEMICAL IDENTIFICATION:

Carnauba Wax (100%)
INCI Name: *Copernicia cerifera*
EU Name: *Copernicia cerifera Cera*
CAS No.: 8015-86-9
EINECS/ELINCS No.: 232-399-4

**INGREDIENTS OR IMPURITIES THAT
CONTRIBUTE TO THE HAZARD (%M):**

This product doesn't have impurities that contribute to the hazard classification.

04. FIRST AID MEASURES

EYE CONTACT:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of skin irritation, get medical attention.

INHALATION:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

INGESTION:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

05. FIRE FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT:

Non-flammable

AUTO IGNITION TEMPERATURE:

Not applicable

FLASH POINTS:

Not applicable

FLAMMABLE LIMITS:

Not applicable

PRODUCTS OF COMBUSTION:

Not available

FIRE HAZARDS IN PRESENCE OF

VARIOUS SUBSTANCES:

Not applicable

EXPLOSION HAZARDS IN

PRESENCE OF VARIOUS SUBSTANCES:

RISKS OF EXPLOSION OF THE PRODUCT IN

PRESENCE OF STATIC DISCHARGE:

No

RISKS OF EXPLOSION OF THE PRODUCT IN

PRESENCE OF MECHANICAL IMPACT:

No

FIRE FIGHT MEDIA AND INSTRUCTIONS:

Not applicable

PROTECTIVE CLOTHING (FIRE):

Not applicable

SPECIAL REMARKS ON FIRE HAZARDS:

Not available

SPECIAL REMARKS ON EXPLOSION HAZARDS:

Not available



06. ACCIDENTAL RELEASE MEASURES

SMALL SPILL AND LEAK: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

LARGE SPILL AND LEAK: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

SPILL KIT INFORMATION: No specific spill kit required for this product.

7. HANDLING & STORAGE

HANDLING: Avoid breathing dust. Do not ingest. Avoid contact with skin and eyes.

STORAGE: Store in a well-ventilated place. Store at room temperature, without control of humidity Protect from sunlight Keep the container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

PERSONAL PROTECTION

| | |
|--------------|----------------|
| EYES: | Safety glasses |
| BODY: | Lab coat |
| RESPIRATORY: | Not applicable |
| HANDS: | Not applicable |
| FEET: | Not applicable |

PROTECTIVE CLOTHING (PICTOGRAMS)
 PERSONAL PROTECTION IN CASE
 OF LARGE SPILL:

Splash goggles. Full suit. Boots. Gloves.

EXPOSURE LIMITS:

| <u>PRODUCT NAME</u> | <u>ACGIH</u> | <u>NIOSH</u> | <u>OSHA – Final PELs</u> |
|---------------------|--------------|--------------|--------------------------|
| Carnauba Wax | None listed | None listed | None listed |

9. PHYSICAL & CHEMICAL PROPERTIES

ODOR: Characteristic odor

COLOR: Yellow to Dark Brown

PHYSICAL STATE AND APPEARANCE: Solid

MOLECULAR WEIGHT: Not available

MOLECULAR FORMULA: Unspecified

PH: Not applicable



| | |
|-----------------------------|-----------------------------------------------|
| BOILING/CONDENSATION POINT: | Not available |
| FREEZING/MELTING POINT: | 178 – 187°F (80 – 86°C) |
| SPECIFIC GRAVITY: | Not available |
| VAPOR PRESSURE: | Not applicable |
| VAPOR DENSITY: | Not applicable |
| ODOR THRESHOLD: | Not available |
| EVAPORATION RATE: | Not applicable |
| LOGKOW: | Not available |
| VISCOSITY: | 30 – 40 CKS (at 99°C) |
| FLASH POINT: | 484°F (251.11°C) |
| NFPA RATING: | (est.)Health: 0 Flammability: 1 Reactivity: 0 |
| SOLUBILITY: | Insoluble in water |
| SPECIFIC GRAVITY/DENSITY: | 0.99 |

10. STABILITY & REACTIVITY

| | |
|------------------------------------------|-----------------------|
| STABILITY AND REACTIVITY: | The product is stable |
| REACTIVITY CONDITIONS OF INSTABILITY: | Not available |
| INCOMPATIBILITY WITH VARIOUS SUBSTANCES: | Not available |
| REM/INCOMPATIBILITY: | Not available |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Not available |
| HAZARDOUS POLYMERIZATION: | Will not occur |

11. TOXICOLGICAL INFORMATION

| | |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RTECS NUMBER: | Carnauba Wax – CAS # 8015-86-9 unlisted |
| TOXICITY: | LD50: Not applicable LC50: Not applicable |
| CHRONIC EFFECTS ON HUMANS: | Not available |
| ACUTE EFFECTS ON HUMANS: | Not available |
| SYNERGETIC PRODUCTS (TOXICOLOGICALLY): | Not available |
| IRRITANCY: | Draize Test: Not available |
| SENSITIZATION: | Not available |
| CARCINOGENIC EFFECTS: | This material is not known to cause cancer in animals or humans. Not listed by ACGIH, IARC, NIOSH, NTP or OSHA |
| CARNAUBA WAX: | |
| BIOLOGICAL DATA: | |
| BIOLOGICAL ASPECTS: | No information available |
| TOXICOLOGICAL STUDIES: | |
| ACUTE TOXICITY STUDIES: | No information available |
| SHORT-TERM STUDIES | |
| RATS: | Experiments showed no compound-related changes, nor were there any dose-related histological changes. Ophthalmic, gross and histopathologic examinations revealed no significant treatment related effects for carnauba wax in the diet. |
| DOGS: | No information available |
| LONG-TERM/CARCINOGENICITY STUDIES: | No information available |
| TOXICITY TO REACTIVE SYSTEM: | No effects on reproduction parameters were observed after feeding carnauba wax. |



SPECIAL STUDIES ON TERATOGENICITY:

Results from this study indicated that there were no significant changes in body weights of pregnant dams during gestation; no significant differences in production data among test groups, and no dose-related effects of carnauba wax on skeletal or soft tissue development in fetuses.

Not available
No information available
0 – 7 mg/kg bw for carnauba wax

MUTAGENIC EFFECTS:
OBSERVATIONS IN HUMANS:
ADI:

12. ECOLOGICAL INFORMATION

ECOTOXICITY:
BODS AND COD:
TOXICITY OF THE PRODUCTS
OF BIODEGRADATION:

Not available
Not available

The product itself and its products of degradation are not toxic.

13. DISPOSAL CONSIDERATION

EPA WASTE NUMBER:
TREATMENT:

Not available
Material does not have an EPA waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. ALWAYS CONTACT A PERMITTED WASTE DISPOSAL (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
PROPER SHIPPING NAME:
DOT INFORMATION:
DOT DESCRIPTION:
N.O.S. COMPONENT:
RQ (REPORTABLE QUANTITY):

Chemicals
49 CFR 172.101
Non-regulated by DOT
None
49 CFR 171.101. Not applicable
Not available

TDG CLASSIFICATION:
IMO/IMDG CLASSIFICATION:
PROPER SHIPPING NAME:
N.O.S.
R.Q:
ICAO/IATA CLASSIFICATION :

Chemicals
Not applicable
N.O.S.



15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

| | |
|-----------------------------------------------------------------------------|-------------------------|
| TSCA 8(b) inventory: | Carnauba Wax |
| SARA 302/304/311/312 extremely hazardous substances: | No products were found. |
| SARA 302/304 emergency planning and notification: | No products were found. |
| SARA 302/304/311/312/hazardous chemicals: | No products were found. |
| SARA 311/312 SDS distribution – chemical inventory – hazard identification: | No products were found. |
| SARA 313 toxic chemical notification and release reporting: | No products were found. |
| Clean Water Act (CWA) 307: | No products were found. |
| Clean Water Act (CWA) 311: | No products were found. |
| Clean air act (CAA) 112 accidental release prevention: | No products were found. |
| Clean air act (CAA) 112 regulated flammable substances: | No products were found. |

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|--------------------|------------------------------------------------------------------------------------------------|
| CAS #: | 8015-86-9 |
| FDA SPECIFICATION: | 21 CFR 184.1978 (revised as of April 1, 2002) 21 CFR 582.1978 (revised as of April 1, 2001) |

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EPA SPECIFICATION: | CFR 40 |
| WHMIS (Canada): | Not controlled under WHMIS (Canada). CEPA DSL: Carnauba Wax This product has been classification in accordance with hazard criteria of the Controlled Product Regulations and SDS contains all required information. Not controlled under TDG (Canada) PIN: Not applicable. PG: Not applicable. |

INTERNATIONAL REGULATIONS

| | |
|--------------|-------------------------------------------------------------|
| EINECS : | Carnauba Wax 232-399-4 |
| DSCL (EEC) : | This product is not classified according to EU regulations. |

E 903

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INTERNATIONAL LISTS : | AUSTRALIA (NICNAS): Carnauba Wax Korea (TCCL): Carnauba Wax Philippines (RA6969): Carnauba Wax China: No products were listed CTFA/INCI: Carnauba (Copernicia cerifera) Wax JAPANESE NAME/SOURCE: Carnauba Wax/JSCI FDA APPROVED 21 CFR 184.1978 No products were found No products were found |
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STATE REGULATIONS :

CALIFORNIA PROP. 65:



16. OTHER INFORMATION

HMIS (U.S.A.):

| | |
|----------------------|---|
| HEALTH HAZARD: | 0 |
| FIRE HAZARD: | 1 |
| REACTIVITY: | 0 |
| PERSONAL PROTECTION: | j |

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

| | |
|------------------|---|
| FIRE HAZARD: | 0 |
| HEALTH: | 0 |
| REACTIVITY: | 0 |
| FLAMMABILITY: | 1 |
| SPECIFIC HAZARD: | 0 |

Abbreviations:

ACGIH: American Conference of Industrial Hygienists

CAS: Chemical Abstracts Service

EC: European Commission

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal dose 50%

LEL: Lower explosive limit

TLV: Threshold Limit Value

TWA: Time Weighted Average

UEL: Upper explosive limit

UN: United Nations

Revised on 12/9/2020

The information provided above is intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. It is the responsibility of the customer and user to ensure it has in place provisions for the safe and proper handling of the material. Although Jedwards International, Inc. believes the above information to be accurate based on the information available to Jedwards, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Jedwards meets their quality requirements and is appropriate for the use to which the product is to be put. Use and purchase of this material is subject to Jedwards International, Inc. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.