



# SAFETY DATA SHEET Asphalt Release Agent



## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

**Product name:** Asphalt Release Agent

**Product code(s):** ARA-100

**Synonym(s):** Proprietary blend of vegetable and plant based oils

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**General use:** Asphalt release agent

**Uses advised against:** None known

### 1.3 Details of the supplier and of the safety data sheet

#### Manufacturer/Distributor

Suncoast Research Labs, Inc./dba Citrus Depot

2901 Anvil Street North

St. Petersburg, FL 33710 USA

+1-800-424-8045; +1 -727-344-7627

### 1.4 Emergency telephone number: ChemTel Inc (24 hours) +1-800-255-3924; International: +1-813-248-0585

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of substance or mixture

**Product definition:** Mixture

**Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation (EC) No. 1272/2008**

Not a dangerous product according to OSHA or to European Union Legislation

### 2.2 Label elements

Not a dangerous product according to GHS

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None known

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

The composition of this product is a trade secret (29 CFR 191.1200(i)). The identities of the components are available to the attending physician or paramedical personnel in case of emergency.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of first aid measures

**Inhalation:** If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist or if you feel unwell, seek medical attention.

**Eyes:** Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

**Skin:** Flush skin with lukewarm water while removing contaminated clothing. Wash affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes before reuse. If irritation persists or if rash develops, seek medical attention.

**Ingestion:** Rinse mouth with water if the victim is conscious. Remove dentures, if present. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration of material into the lungs. This material can get into the lungs during swallowing or vomiting, resulting in lung inflammation or lung damage. Do not leave the victim unattended. Never give anything by mouth to an unconscious or convulsing person. Get medical attention immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential health symptoms and effects

**Eyes:** May cause mild eye irritation with redness and discomfort.

**Skin:** May cause mild skin irritation. May cause an allergic reaction in susceptible individuals.

**Inhalation:** Not anticipated to cause respiratory distress at ambient temperatures

**Ingestion:** May cause gastrointestinal upset with nausea, vomiting, abdominal pain and diarrhea.

**Chronic:** None known

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Advice to doctor and hospital personnel

Treat supportively and symptomatically. The metabolism of fatty acid methyl esters may release free methanol in the body that could induce

metabolic acidosis with delayed effects.

## SECTION 5 - FIRE FIGHTING MEASURES

### 5.1 Extinguishable media

**Suitable methods of extinction:** Use extinguishing media such as foam, dry chemical or carbon dioxide.

**Unsuitable methods of extinction:** Water spray may be ineffective. Water jets and high pressure streams may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

Combustible liquid at high temperatures. Containers may rupture if exposed to fire. During a fire irritating and highly toxic gases may be generated by thermal decomposition or combustion. Symptoms of overexposure to these gases may not be apparent or may be delayed. Obtain medical advice.

Rags soaked with any solvent can present a fire hazard and should be stored in UL listed or Factory Mutual approved, covered containers. Improperly stored rags, under certain conditions, can lead to spontaneous combustion.

**Explosion hazards:** Not considered to be an explosion hazard.

### 5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Firefighters should control runoff water to prevent environmental contamination.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing designated in Section 8.2. Ventilate the area. Remove sources of ignition. No smoking. Clean up spills immediately. Spill creates a slip hazard.

### 6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers and waterways.

### 6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Do not flush spilled material down the drain. Cover with a large quantity of inert absorbent. Do not use combustible absorbents such as sawdust. Collect product and place into approved container for proper disposal. Observe possible material restrictions (Sections 7.1 and 10.5). Clean contaminated area with soap and water. Dispose of in accordance with federal, state and local regulations.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wear all appropriate protective equipment specified in Section 8.2. Remove all sources of ignition. No smoking. Do not get in eyes or on skin or clothing. If normal use presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing and shoes thoroughly before reuse.

#### **Advice on protection against fire and explosion**

Keep away from heat, sparks, open flames and hot surfaces. No smoking. To avoid fire or explosion, dissipate static electricity by grounding and bonding containers and equipment before transferring material.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect container against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers are hazardous when empty as they retain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

### 7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure values.

### 8.2 Exposure controls

**Engineering measures:** Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

**Individual protection measures:** Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

**Hygiene measures:** Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

**Eye/face protection:** Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

**Hand protection:** Wear gloves recommended by glove supplier for protection against materials in section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

**Other protective equipment:** Wear protective clothing. Wear protective boots if the situation requires.

**Respiratory protection:** None required with normal use. Always use an approved respirator when vapor/aerosols are generated. Where risk

assessment shows air-purifying respirators are appropriate use a half-mask respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental exposure controls:** Do not empty into drains.

*PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.*



## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Clear, colorless liquid
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	No data available
<b>Molecular Weight</b>	Not applicable
<b>Chemical Formula</b>	Not applicable
<b>pH</b>	Not determined
<b>Melting Point, Range</b>	No data available
<b>Initial Boiling Point</b>	288 - 366 °C (550 - 690 °F)
<b>Evaporation Rate</b>	<1 (n-BuAc =1)
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flash Point</b>	171 - 199 °C (340 - 390 °F)
<b>Autoignition Temperature</b>	374 - 449 °C (705 - 840 °F)
<b>Decomposition Temperature</b>	No data available
<b>Lower Explosive Limit (LEL)</b>	No data available
<b>Upper Explosive Limit (UEL)</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	0.88
<b>Viscosity</b>	13.9 - 4.05 cSt @ 40 °C
<b>Solubility in Water</b>	No data available
<b>Partition Coefficient: n-octanol/water</b>	No data available
<b>Oxidizing Properties</b>	Not applicable
<b>Explosive Properties</b>	Not applicable
<b>Volatiles by Weight @ 21° C</b>	No data available

### 9.2 Other data

No data available

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

No special reactivity has been reported under normal conditions of handling and use.

### 10.2 Chemical stability

This product is stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Extreme temperatures; contact with incompatible materials

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute oral toxicity

Expected to have low acute oral toxicity

#### Acute inhalation toxicity

Expected to have low acute inhalation toxicity

#### Acute dermal toxicity

Expected to have low acute dermal toxicity

#### Skin irritation

May cause mild skin irritation.

**Eye irritation**

May cause eye irritation.

**Sensitization**

No data available

**Genotoxicity**

No data available

**Mutagenicity**

No data available

**Specific organ toxicity - single exposure**

No data available.

**Specific organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Further information**

No component of this product present at levels greater than or equal to the 0.1% threshold (de minimis) is identified as a probable, possible, potential or confirmed carcinogen by ACGIH, IARC, NTP or OSHA.

No data is available regarding the mutagenicity or teratogenicity of this material, nor is there available data that indicated that it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

**SECTION 12 - ECOLOGICAL INFORMATION****12.1 Toxicity**

Large discharges of this material may be harmful to the environment.

**12.2 Persistence and degradability**

This product is biodegradable.

**12.3 Bioaccumulation potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This material is not identified as a PBT substance.

**12.6 Other adverse effects****Additional ecological information**

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**SECTION 13 - DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Methods of disposal:** The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**RCRA P-Series:** No listing

**RCRA U-Series:** No listing

**SECTION 14 - TRANSPORT INFORMATION**

**Note:** Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

**NOT REGULATED FOR TRANSPORT**

**SECTION 15 - REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for substance or mixture****U. S. Federal Regulations**

**OSHA Hazard Communication Standard:** This material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

**OSHA Process Safety Management Standard:** This material is not regulated under OSHA PSM Standard 29 CFR 1910.119.

**EPA Risk Management Planning Standard:** This material is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

**EPA Federal Insecticide, Fungicide and Rodenticide Act:** This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

**Toxic Substance Control Act (TSCA) Inventory:** All of the substances in this product are listed on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.

**Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.4(f)(2) and Chemical Code Number**  
None listed

**Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number:** None listed

**Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals:** None listed

**Superfund Amendments and Reauthorization Act (SARA)**

**SARA Section 311/312 Hazard Categories:** This product does not contain any chemical components which are subject to the reporting requirements of Section 311/312 of the Emergency Planning and Community Right-to Know Act of 1986.

**SARA 313 Information:** None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

**SARA 302/304 Extremely Hazardous Substance:** None of the components of the product are subject to the reporting requirements of these sections of Title III of SARA.

**SARA 302/304 Emergency Planning & Notification:** None of the components of the product are subject to the reporting requirements of these sections of Title III of SARA.

**Comprehensive Response Compensation and Liability Act (CERCLA):** No components of the product exceed the threshold (de minimis) reporting levels for hazardous wastes established by CERCLA.

**Clean Air Act (CAA)**

This product does not contain Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

**Clean Water Act (CWA)**

None of the chemicals in this product are Hazardous Substances under the CWA.

None of the chemicals in this product are Priority Pollutants under the CWA.

None of the chemicals in this product are Toxic Pollutants under the CWA.

**U.S. State Regulations**

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986**

This product contains no chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm.

**Other U.S. State Inventories**

The components of product are not listed on any State Hazardous Substance Inventories, Right-to-Know lists or Air Quality/Air Pollutants lists.

**Canada**

**WHMIS Hazard Classification:** None allocated

**Canadian National Pollutant Release Inventory (NPRI):** None of the components of this product are listed on the NPRI.

**European Economic Community**

**WGK, Germany (Water danger/protection):** 1 (low hazard to waters)

**Global Chemical Inventory Lists**

Country	Inventory Name	Inventory Listing*
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (KECI)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.

No - One or more components of this product are not on the inventory or are exempt from listing.

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16 - OTHER INFORMATION**

**Hazardous Material Information System (HMIS)**

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	B

B = safety glasses and gloves

**HMIS Hazard Rating Legend**

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious  
4 = Severe \* = Chronic Health Hazard

**NFPA Hazard Rating Legend**

0 = Insignificant 1 = Slight 2 = Moderate  
3 = High 4 = Extreme

**National Fire Protection Association (NFPA)**

**Flammability**



**Abbreviation Key**

- ACGIH** American Conference of Governmental Industrial Hygienists
- ADR** Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)
- CAS** Chemical Abstract Services
- CFR** Code of Federal Regulations
- DOT** Department of Transportation
- EMS Guide** Emergency Response Procedures for Ships Carrying Dangerous Goods

<b>EPA</b>	Environmental Protection Agency
<b>ERG</b>	Emergency Response Guide Book
<b>FDA</b>	Food and Drug Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
<b>HCS</b>	Hazard Communication Standard
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IDLH</b>	Immediately Dangerous to Life and Health
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IMO</b>	International Maritime Organization
<b>mppcf</b>	Millions of Particles Per Cubic Foot
<b>NA</b>	North America
<b>NAERG</b>	North American Emergency Response Guide Book
<b>NIOSH</b>	National Institute for Occupational Safety
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, Bioaccumulating and Toxic
<b>PEL</b>	Permissible Exposure Limit
<b>PMCC</b>	Pensky-Martens Closed Cup
<b>ppm</b>	Parts Per Million
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RID</b>	Dangerous Goods by Rail
<b>RQ</b>	Reportable Quantity
<b>TCC/Tag</b>	Tagliabue Closed Cup
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substance Control Act
<b>TWA</b>	Time-Weighted Average
<b>UN</b>	United Nations
<b>VOC</b>	Volatile Organic Compounds
<b>vPvB</b>	Very Persistent and Very Bioaccumulating
<b>WHMIS</b>	Workplace Hazardous Materials Information System

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Preparation date: 23 February 2018