

1. Identification

Product identifier ValAro Aromatic Extract Oils

Other means of identification

Product code PB360792-00

Synonyms ValAro 100, 130, 130A, 45, 65, 180 Extracts

Recommended use Rubber manufacturing

A complex combination of hydrocarbons obtained as the extract from a solvent extraction process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C50. This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

E-mail PBR.SDS@pbfenergy.com

Telephone number 856-224-6605

Emergency telephone number Chemtrec 800-424-9300

Paulsboro Refining Company
800 Billingsport Road
Paulsboro, NJ 08066

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity, repeated exposure	Category 1 (adrenals, bone marrow, liver, lymph nodes, kidney, stomach, thymus)

Environmental hazards

Hazardous to the aquatic environment, acute hazard	Category 3
Hazardous to the aquatic environment, long-term hazard	Category 2

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs (adrenals, bone marrow, liver, lymph nodes, kidney, stomach, thymus) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Do not eat, drink or smoke when using this product. Do not breathe mist or vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash thoroughly after handling. Avoid release to the environment.

Response Collect spillage. If exposed or concerned: Get medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Extracts (petroleum), heavy paraffinic distillate solvent		64742-04-7	100

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed.

Skin contact Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Get medical attention immediately.

Most important symptoms/effects, acute and delayed Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical The product is not flammable. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

General fire hazards This product is not flammable. Will burn if involved in a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Remove with vacuum trucks or pump to storage/salvage vessels.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Clean surface thoroughly to remove residual contamination. Retain all contaminated water for removal and treatment.

Environmental precautions

Contain spillages with sand, earth or any suitable adsorbent material. Prevent entry into waterways, sewer, basements or confined areas. Do not allow material to contaminate ground water system. Reporting of releases to appropriate regulatory agencies may be required.

7. Handling and storage**Precautions for safe handling**

Avoid exposure - obtain special instructions before use. Should be handled in closed systems, if possible. Avoid contact with skin. Be aware of potential for surfaces to become slippery. Keep away from heat, spark, open flames and other sources of ignition.

Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep away from incompatible materials, open flames and high temperatures.

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Oil mist, mineral (CAS -)	PEL	5 mg/m3	Mist.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Oil mist, mineral (CAS -)	TWA	5 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Oil mist, mineral (CAS -)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Should be handled in closed systems, if possible. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin protection**Hand protection**

Chemical resistant gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other

Chemical/oil resistant gloves are recommended. Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties**Appearance**

Dark liquid.

Physical state

Liquid.

Form

Liquid.

Color

Dark brown to black.

Odor

Strong petroleum.

Odor threshold

Not available.

pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	315.1 °F (157.28 °C)
Flash point	> 400.0 °F (> 204.4 °C) Cleveland Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor density	Not available.
Relative density	0.99 (60°F)
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	> 400 °F (> 204.44 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Percent volatile	Negligible.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Sulfur oxides. Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of oil mist or vapors formed during heating of the product will irritate the respiratory system and provoke coughing. Danger of serious damage to health by prolonged exposure through inhalation.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include redness, drying and cracking of the skin.

Information on toxicological effects

Acute toxicity	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not classified.

Skin sensitization	Not a skin sensitizer.
Germ cell mutagenicity	Not expected to be mutagenic.
Carcinogenicity	Prolonged and repeated skin contact with some mildly treated or untreated mineral oils have produced skin cancer in laboratory animals.

IARC Monographs. Overall Evaluation of Carcinogenicity

Mineral Oil, untreated or mildly refined (CAS -) 1 Carcinogenic to humans.

NTP Report on Carcinogens

Mineral Oil, untreated or mildly refined (CAS -) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity	Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Causes damage to organs (adrenals, bone marrow, liver, lymph nodes, kidney, stomach, thymus) through prolonged or repeated exposure.
Aspiration hazard	Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.
Further information	Prolonged exposure to the preparation may cause serious health effects.

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	The product is not readily biodegradable. Expected to be inherently biodegradable.
Bioaccumulative potential	Has the potential to bioaccumulate.
Mobility in soil	Not available.
Mobility in general	The product is insoluble in water.
Other adverse effects	Oil spills are generally hazardous to the environment.

13. Disposal considerations

Disposal instructions	Recover and recycle, if practical. Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose in accordance with applicable federal, state, and local regulations.
Contaminated packaging	Dispose of empty containers according to applicable federal, state/provincial and/or local regulations.

14. Transport information

DOT	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Extracts (petroleum), heavy paraffinic distillate solvent)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241

IATA	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Extracts (petroleum), heavy paraffinic distillate solvent)

Transport hazard class(es)**Class** 9**Subsidiary risk** -**Packing group** III**Environmental hazards** Yes**ERG Code** 9L**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**IMDG****UN number** UN3082**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Extracts (petroleum), heavy paraffinic distillate solvent)**Transport hazard class(es)****Class** 9**Subsidiary risk** -**Packing group** III**Environmental hazards****Marine pollutant** Yes**EmS** F-A, S-F**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This substance/mixture is not intended to be transported in bulk.**15. Regulatory information****US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Polycyclic Aromatic Compounds (CAS -) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories** Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No**SARA 302 Extremely hazardous substance**

Not listed.

SARA 311/312 Hazardous chemical Yes**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Polycyclic Aromatic Compounds	-	0.89

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Polycyclic Aromatic Compounds (CAS -)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**US state regulations****US. Massachusetts RTK - Substance List**

Oil mist, mineral (CAS -)

US. New Jersey Worker and Community Right-to-Know Act

Mineral Oil, untreated or mildly refined (CAS -)

Polycyclic Aromatic Compounds (CAS -)

US. Pennsylvania Worker and Community Right-to-Know Law

Oil mist, mineral (CAS -)

Polycyclic Aromatic Compounds (CAS -)

US. Rhode Island RTK

Polycyclic Aromatic Compounds (CAS -)

US. California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Mineral Oil, untreated or mildly refined (CAS -)

Polycyclic Aromatic Compounds (CAS -)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 27-January-2015

Revision date -

Version # 01

NFPA ratings



List of abbreviations

IARC: International Agency for Research on Cancer.

References

IARC Monographs. Overall Evaluation of Carcinogenicity (Volumes 1-106)
CONCAWE Hazard classification and labelling of petroleum substances in the European Economic Area - 2010

Disclaimer

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