MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product identifier : **Sea Foam Motor Treatment SF-16, SF-128, SF-55**
Sea Foam Trans Tune TT-16, TT-55

Product Use : Motor Treatment - Fuel system treatment, Trans Tune - Transmission treatment
Chemical Family : Mixture.

Supplier's name and address:
Sea Foam Sales Company
12987 Pioneer Trail • Eden Prairie, MN, USA 55347

Manufacturer's name and address:
Refer to Supplier

24 Hr. Emergency Tel # : 1-800-535-5053 (Infotrac)

NOTE: INFOTRAC emergency number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt.%	LC_{50}(4hr) (Rat, ihl.)	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Pale Oil	64742-54-7	40.00 - 60.00	N/Av	>15000 mg/kg	>5000 mg/kg
Naphtha	64742-49-0	25.00 - 35.00	N/Av	>5000 mg/kg	N/Av
IPA	67-63-0	10.00 - 20.00	17000ppm	4720mg/kg	12890mg/kg

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear liquid. Typical odor. Warning! Flammable liquid and vapor. Vapors may cause flash fire. Harmful or fatal if swallowed. Can enter the lungs and cause damage. Harmful if inhaled. May cause nausea, vomiting, headache and other central nervous system effects. Causes eye irritation. May cause skin irritation. May have fetotoxic effects, based on animal studies.

POTENTIAL HEALTH EFFECTS

Target organs : Eyes, skin, respiratory system and digestive system.

Routes of exposure : *Inhalation::* YES *Skin:* YES *Skin &* YES *Ingestion:* YES

Signs and symptoms of short-term (acute) exposure

Inhalation : Inhalation of vapors can cause nasal and respiratory irritation. Exposure to high vapor concentration can cause dizziness, nausea and central nervous system depression. May be fatal if inhaled. Breathing saturated vapors for a few minutes may be fatal. Saturated vapors can be encountered in confined spaces and/or under conditions of poor ventilation.

Skin : May cause mild skin irritation. May be absorbed and cause symptoms similar to those for inhalation.

Eyes : May cause moderate eye irritation.

Ingestion : Swallowing may cause irritation, nausea and vomiting. May cause central nervous system depression. May be absorbed and cause symptoms similar to those for inhalation. Symptoms may include burning pain, vomiting and diarrhea. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Potential chronic health effects

: Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. Prolonged overexposure to product can result in permanent central nervous system changes. May cause lung inflammation and lung damage with extreme exposures.

Other important hazards : Contains material which may be a teratogen. See TOXICOLOGICAL INFORMATION, Section 11.

SECTION 4 - FIRST AID MEASURES

Inhalation : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.

Skin contact : Remove/Take off immediately all contaminated clothing. Wash exposed area thoroughly with soap and water for at least 15 minutes. Get medical attention.

Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Lift upper and lower lids during flushing to ensure complete removal of chemical. Remove contact lenses. Seek immediate medical attention/advice.

Ingestion : Seek immediate medical attention/advice. Do not induce vomiting. Do not give liquids to drink. Never give anything by mouth to an unconscious person.If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability
: Flammable liquid and vapor. Will ignite when exposed to heat, flame and other sources of ignition.

Flash point : 12.8°C / 55°F

Flash point Method : TCC

Auto-ignition temperature : N/Av

Lower flammable limit (% by vol.) : N/Av

Upper flammable limit (% by vol.) : N/Av

Oxidizing properties : None known.

Flame Projection Length : Not applicable.

Flashback observed : Not applicable.

Explosion data: Sensitivity to mechanical impact / static discharge
: Not available.

Suitable extinguishing media : Dry chemical, foam, carbon dioxide and water fog.

Special fire-fighting procedures/equipment : Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Direct water or foam spray may cause frothing which can increase the intensity and range of the fire.

Hazardous combustion products
: Carbon oxides ;nitrogen oxides (NOx) ;Sulphur oxides; Phosphorus compounds; other unidentified organic compounds; irritating fumes and smoke.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Spill response/cleanup : Ventilate area of release. Remove all sources of ignition. Stop spill or leak at source if safely possible. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Use only non-sparking tools and equipment in the clean-up process. Notify the appropriate authorities as required.

Prohibited materials : None known.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures : Use in a well ventilated area. Wear suitable protective equipment during handling. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Use proper bonding and grounding techniques when transferring liquid. Avoid contact with incompatible materials. Wash thoroughly after handling.

Storage requirements : Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Keep containers tightly closed when not in use.

Incompatible materials : Strong oxidizing agents; Strong acids; Alkali metals; Aluminum; Phosgene; Potassium oxides; Crotonaldehyde; Trinitromethane.

Special packaging materials : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

Ingredients	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Pale Oil	5mg/m³ (As 'Oil mist, mineral')	10mg/m³ (As 'Oil mist, mineral')	5mg/m³ (As 'Oil mist, mineral')	N/Av
Naphtha	300ppm (VM&P Naphtha)	N/Av	300ppm (VM&P Naphtha) (final rule limit)	N/Av
IPA	200 ppm	400 ppm	400 ppm	N/Av

Ventilation and engineering measures : Provide mechanical ventilation in confined spaces. Use explosion-proof equipment.

Respiratory protection : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised.

Skin protection : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers. Wear long sleeved shirt and pants to minimize exposed skin.

Eye / face protection : Chemical safety glasses with side shields or splash proof goggles. A full face shield may also be necessary.

Other protective equipment : Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.
Appearance : Clear liquid.
Odour : Typical odor.
Odour threshold : N/Av
pH : N/Av
Boiling point : N/Av
Specific gravity : 0.819
Melting/Freezing point : N/Av
Coefficient of water/oil distribution : N/Av
Vapour pressure (mmHg @ 20° C / 68° F) : N/Av
Solubility in water : Insoluble.
Vapour density (Air = 1) : >1
Evaporation rate (n-Butyl acetate = 1) : <1
Volatile organic Compounds (VOC's) : 367g/L
Volatiles (% by weight) : N/Av
Viscosity : N/Av
Absolute pressure of container : N/Av

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity : Stable under the recommended storage and handling conditions prescribed. Hazardous polymerisation does not occur.

Conditions to avoid : Avoid heat and open flame.

Materials To Avoid And Incompatibility : See Section 7 (Handling and Storage) section for further details.

Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data : There is no available data for the product itself, only for the ingredients. See Section 2.

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects : Not expected to have other reproductive effects.

Teratogenicity : This product contains Isopropanol. Animal evidence suggests Isopropanol may be fetotoxic at doses that are not maternally toxic.

Mutagenicity : Not expected to be mutagenic in humans.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Synergistic materials : None known or reported by the manufacturer.

Medical conditions aggravated by overexposure : None known or reported by the manufacturer.

Addtional Health Hazards : None reported by the manufacturer.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. No data is available on the product itself.

Important environmental characteristics : No data is available on the product itself.

Ecotoxicological : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7. Do not allow material to contaminate ground water system.

Methods of Disposal : Dispose of in accordance with federal, provincial and local hazardous waste laws. For assistance with your waste management needs, contact EMCO's Waste Services Division at (262) 658-4000.

SECTION 14 - TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Naphtha; Isopropanol)	3	II	ORM-D
TDG Additional information	ERG #128 The listed transportation information applies only to ground transport and does not address regulatory variations due to changes in package size, mode of shipment, or other regulatory descriptors.				
49CFR/DOT	UN1993	Flammable Liquids, n.o.s. (Naphtha; Isopropanol)	3	II	3
49CFR/DOT Additional information	ERG #128 The listed transportation information applies only to ground transport and does not address regulatory variations due to changes in package size, mode of shipment, or other regulatory descriptors.				

SECTION 15 - REGULATORY INFORMATION

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).
Canadian WHMIS Classification:
Class B2 (Flammable Liquids)
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material)
Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SECTION 16 - OTHER INFORMATION

NFPA / HMIS Ratings:

Health: 1 Flammability: 3 Reactivity: 0 Personal Protection: X

Legend :
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
IARC: International Agency for Research on Cancer
Inh: Inhalation
N/Ap: not applicable
N/Av: not available
NIOSH: National Institute of Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
RTECS: Registry of Toxic Effects of Chemical Substances
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
TSCA: Toxic Substance Control Act
WHMIS: Workplace Hazardous Materials Identification System

References : Not available.

Prepared for:

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