

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification							
Product Name : TOER II Chemical Name: Severely Hydrotreated Light Naphthenic Distillate Chemical Family : Petroleum Distillate. Chemical Formula : Not Applicable. CAS Number : 64742-53-6 Other Designations: Contains Oil Company Contact : TENOIT CO., LTD. Room 4, 5FL., No. 109, Sec. 6, Mingquan East Road, Taipei, Taiwan EMERGENCY TELEPHONE NUMBER : TEL (886) 2 8792-2185 8792-2187 FAX (886) 2 8792-2151							
Section 2 - Composition And Information On Ingredients							
A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces finished oil with a viscosity near 60 SUS @100 °F(9cSt @40°C).							
Ingredient Name				CAS No.	% Vol		
Severely Hydrotreated Light Naphthenic Petroleum Oil				64742-53-6	>99.7%		
Butylated Hydroxytoluene(BHT) or 2, 6-Di-tert-butyl-p-cresol(DBPC)				128-37-0	< 0.3%		
Trace Impurities:							
Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Severely Hydrotreated Light Naphthenic Petroleum Oil	5mg/m ³ (oil mist)	None estab	5 mg/m ³ (oil mist)	10 mg/m ³ (oil mist)	None estab	None estab	None estab
Section 3 - Hazardous Identification							
Potential Health Effects							
Primary Entry Route : Skin Inhalation : Inhalation of vapors or mist may be irritating to respiratory passages. Target Organ for mineral oil mist is lungs. Prolonged exposure may result in dizziness and nausea. Eye : Eye contact may result in slight irritation and redness. Skin : Short term contact with skin is unlikely to cause any problems ; excessive or prolonged and repeated contact and poor hygiene conditions may result in dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin. Ingestion : May result in nausea or stomach discomfort. Carcinogenicity : Based on OSHA 1910.1200 and IARC study requirements, this product does not require labeling. Meets EU requirement of less than 3%(w/w)DMSO extract for total polycyclic aromatic compound(PAC) using IP 346.NTP and OSHA do not list this product as a potential carcinogen. Mutagenicity : This product gives negative mutagenic results from Modified Ames Assay. Medical Conditions Aggravated by Long-Term Exposure: Personnel with pre-existing skin disorders should avoid contact with this product.							
Section 4 - First Aid Measures							
Eye Contact: Wash with water. If irritation or redness persists seek medical help. Skin Contact : Wash thoroughly with soap and water. Remove contaminated clothing. Reuse only after cleaning. Inhalation : Remove to fresh air. Assist breathing if necessary. Seek medical help. Aspiration: If there is any suspicion of aspiration into the lungs obtain medical advise.							

Material Safety Data Sheet

Ingestion: If swallowed, observe for signs of stomach discomfort or nausea. If symptoms persist, seek medical help. Do not induce vomiting.

Section 5 - Fire Fighting Measures

Flash Point: >295°F(>145°C)

Flash Point Method: COC

Burning Rate: Not available

Autoignition Temperature: >600°F(>315°C)

Lower Explosive Level (LEL): Not determined

Upper Explosive Limit (UEL): Not determined

Flammability Classification: OSHA Class III-B Combustible Liquid

Extinguishing Media: Halon, dry chemical, foam, CO₂ and water mist or fog. Water may be used to cool below flash point.

Unusual Fire or Explosion Hazards: Do not use forced stream as this could cause fire to spread.

Combustion Products: Fumes, smoke and carbon monoxide.

Fire-Fighting instructions and Equipment: Use water to cool containers exposed to flames. Do not enter enclosed or a confined workspace without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available).

Section 6 - Accidental release Measures

Spill/Leak Procedures: Stop spill at source if possible without risk. Contain spill. Eliminate sources of ignition. Spill area will be slick. Recover all possible material for reclamation. Use non-flammable absorbent material to pick up remainder of spill.

Spill to Navigable Waters: If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.

Section 7 - Handling and Storage

Handling and Storage Precautions:

Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors. NFPA Class IIIB storage. Wash thoroughly after handling.

Work/Hygienic Practices: Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse. Discard contaminated shoes and leather gloves.

Shelf Life: Product should be stored in clean, dry containers at ambient temperatures and it should remain stable with excetion of slight color stability loss unless it is contaminated.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls: Adequate ventilation is required where excessive heating or agitation may occur to maintain concentration below exposure limits.

Eye/Face Protection: Safety glasses or face shield where splashing is possible.

Skin Protection: As needed to prevent repeated skin contact. Solvent resistant gloves should be used if needed.

Respiratory Protection: Not Normally Needed. Respirator should be used in areas where vapor concentrations are excessive due to high temperatures or where oil misting occurs.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear & bright

Color: Water white to pale

Odor: Mild petroleum odor

Odor Threshold: Not determined

Vapor Pressure: Not applicable

Vapor Density(Air=1): >5

Specific Gravity (H₂O=1): 0.88

Water Solubility: Nil

Boiling Point: 500-700°F(260-370°C)

Melting Point: -65°F(-55°C)

% Volatile: Nil LVP-VOC

Evaporation Rate: Not available

PH: Not applicable

Material Safety Data Sheet

Section 10 - Stability and Reactivity		
Stability : Stable Polymerization : Polymerization will not occur. Chemical Incompatibilities: Strong Oxidizers Condition to Avoid(Stability) : Sources of ignition. Hazardous Decomposition Products : Combustion products include carbon dioxide and carbon monoxide.		
Section 11 - Toxicological Information		
Acute Studies: Tests on similar materials show a low order of acute oral and dermal toxicity. Eye Effects: Minimal irritation on contact. Skin Effects: Practically non-toxic if absorbed. May cause mild irritation with prolonged and repeated exposure. Acute Oral Effects: Tests on similar materials indicate low order of acute oral toxicity. Acute Inhalation Effects : Low acute toxicity expected on inhalation. This product is severely hydrotreated. Severely hydrotreated naphthenic petroleum oils have not been found to be carcinogenic or potential carcinogens.		
Section 12 - Ecological Information		
Aquatic Release : Advise authorities if product has entered or may enter watercourses or sewer drains.		
Section 13 - Disposal Considerations		
Follow Federal, State, and Local regulations. Not a RCRA hazardous waste if uncontaminated. If "used" , RCRA criteria must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service. If permitted incineration may be practical. Consider recycling.		
Section 14 - Transport Information		
Proper Shipping Name	Not regulated by DOT(Contains oil)	
Hazard Class	Not Applicable	
DOT ID No.	Not Applicable	
DOT Shipping Label	Not regulated by DOT	
Section 15 - Regulatory Information		
U.S. Federal Regulatory Information:		
CERCLA/SARA		
302/303/304 Categories	Extremely Hazardous Substances	None
311/312 Categories	Immediate (Acute) Health Effects	No
	Delayed (Chronic)Health Effects	No
	Fire Hazard	No
	Sudden Release of Pressure Hazard	No
	Reactivity Hazard	No
313 Categories	Toxic Chemicals (40 CFR 372)	None
Clean Air Act	Hazardous Air Pollutants (HAPS)	None
	Ozone Depleting compounds(ODC)	None
Clean Water Act (40 CFR 116;401.15)	If spilled into navigable waters it is reportable to National Response Center, 800-424-8802 Reportable Quantity=Oil Sheen present on navigable water surface	
OSHA(29 CFR 1910)	This product is not hazardous under Hazard Communication Standard 29 CFR 1910.1200	
RCRA (40 CFR 261.33)	This product does not meet hazardous waste criteria.	
State Regulatory :		
California Prop 65	No Proposition 65 chemicals exist in this product, no labeling required.	

Material Safety Data Sheet

Florida	No listed ingredients are present	
Massachusetts RTK	No listed ingredients are present	
Minnesota RTK	No listed ingredients are present	
New Jersey RTK	Lists petroleum oil, but this product does not contain hazardous ingredients.	
Pennsylvania RTK	Lists petroleum oil, but this product does not contain hazardous ingredients greater than 3%.	
Illinois DOL TSL	No listed ingredients are present	
Other Regulations:		
<p>CONEG Metals: Since cadmium, chromium, lead and mercury are not detectable and it does not exceed 100ppm total in this product, it is compliant with CONEG Metals regulation.</p> <p>EEC(Europe): This product is not known to be a dangerous good internationally unlabeled.</p> <p>EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals CAS No. 64742-53-6</p>		
Foreign Inventories:		
The components of this product are listed under the following foreign inventories:		
European Union's EINICS	No. 265-156-6	
Korea's ECL	No. KE-12552	
Australia's AICS	No. 64742-53-6	
Canada's DSL	No. 64742-53-6	
Philippines' PICCS-on List		
Section 16-Other Information		
NFPA Hazard Rating - Health	1 Slight	
- Fire	1 Slight	
- Reactivity	0 Least	

Disclaimer :

The information contained herein is based upon data believed to be reliable and reflects our best professional judgment. It is the responsibility of the user to determine the suitability of the material for their purpose. No warranty is expressed or implied, is given.