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Section 1 - PRODUCT AND C	OMPANY IDENTIFICA	ATION	
Product Name: SFSS-CD-40			
General Characteristics: Petroleum Distilla	ates (Petroleum hydi	rocarbon mixture)	
Intended Use: Industrial Solvent			
Hazard Classification: Flammable & Hazardous	s material to enviro	onment	
Company Contact: TENOIT CO., LTD.			
Room 4, 5FL., No. 109, Sec. 6, M		faipei, Taiwan	
EMERGENCY TELEPHONE NUMBER : TEL (886) 2 8792		7	
FAX (886) 2 8792			
Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS			
Reportable Hazardous Substance(s) or Complex		0 *	
Name	CAS#	Concentration*	
Petroleum Distillates ,	64742-47-8	100%	
Hydrotreated Light distillates (Hydrotreated Kerosene)			
Section 3 - HAZARDS IDENTIFICATION			
A. Classification:			
Skin corrosion/irritation : 2 Aspiration hazard : 1			
B. Label element, including precautionary s	tatements.		
Symbols:			
Signal word(s):			
Danger, Warning			
Hazard & Risk statement(s):			
- H226: Flammable liquid and vapor			
- H304: May be fatal if swallowed and enters	s airways		
- H315: Causes severe skin burns and eye damage			
Precautionary statement(s):			
Prevention			
- P201: Obtain special instructions before u	ise.		
- P202: Do not handle until all safety preca		ead and understood.	
- P210: Keep away from heat/sparks/open flam	nes/hot surfaces.		
- No smoking.			
- P233: Keep container tightly closed.			
P240: Ground/bond container and receivingP241: Use explosion-proof electrical/vents		/equipment	

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- P242: Use only non-sparking tools. - P243: Take precautionary measures against static discharge - P280: Wear protective gloves/protective clothing/eye protection/face protection. - P281: Use personal protective equipment as required. Response - P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. - P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P308+P313: IF exposed or concerned: Get medical advice/attention. - P331: Do NOT induce vomiting. - P370+P378: In case of fire: Use ... for extinction. - P391: Collect spillage. Storage - P405: Store locked up. - P403+P235: Store in a well-ventilated place. Keep cool. Disposal - P501: Dispose of contents/container to... Other hazards which do not result in classification; NFPA : Hygiene: 1, Fire: 2, Reactivity: 0 Section 4 – FIRST AID MEASURES **INHALATION**: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN CONTACT** : Remove contaminated clothing and shoes. Wash immediately with large amounts of water and soap for a minimum 15 minutes. Get medical attention. If symptoms persist, seek medical attention. Launder sufficiently contaminated clothing before re-use otherwise get rid off it. **EYE CONTACT:** Immediately flush eyes with running water for a minimum of 30 minutes. Flush eyes with 0.9% solution in sterilized saline occasionally lifting upper and lower lids for a minimum of 30 minutes or until cul-de-sacs are neutralized or no evidence of chemical remains. Get medical attention immediately. Inspect frequently. **INGESTION** : Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician immediately. Section 5 - FIRE FIGHTING MEASURES A. Suitable extinguishing media: 1. Extinguishing media: Dry chemical, Carbon dioxide, Water, Normal foam. 2. Unsuitable extinguishing media: No data 3. Extinguish method: Use water to cool fire-exposed tanks, containers, and

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structures. Fight horizontal tank fires from side of the tank. Use foam if exposed to heat or flame.

B. Specific hazards arising from the chemical:

1. Toxicant from combustion

Toxic substances created (e.g. CO, oxidized hydrocarbon and sulfur)

2. Fire and Explosion Hazards

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

C. Special protective equipment and precautions for firefighters:

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved

pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam. See Section 16 for the NFPA 704 Hazard Rating.

Section 6 - ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures:

Prevent ignition, stop leak and ventilate the area. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Vapor can be controlled using a water fog. Water streams should not be directed to the liquid as this will cause the liquid to boil and generate more vapor. Keep personnel upwind from leak. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

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B. Environmental precautions:		
1. Air : No data		
2. Soil : No data		
3. Water : No data		
C. Methods and materials for containment and cleaning up:		
Collect liquid in an appropriate container or absorb with an inert material (e.g.,		
vermiculite, dry sand, earth), and place in a chemical waste container.		
Use non-sparking tools and equipment. Do not use combustible material, such as saw		
dust. Do not flush to sewer.		
Section 7 - HANDLING AND STORAGE		
A. Precautions for safe handling:		
Use only in a well-ventilated area. Ground and bond containers when transferring		
material. NFPA class IA storage. Flash point is less than 73 degrees F and boiling		
point is less than 100 degrees F. Avoid breathing (dust, vapor, mist, gas). Avoid		
prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly		
after handling. Never siphon by mouth.		
B. Conditions for safe storage. including incompatibilities:		
Keep away from heat, sparks, and flame. Keep container closed when not in use. Consult		
NFPA and / or OSHA codes for additional information.		
Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION		
A. Exposure limits in the air of the workplace, biological limit values:		
• KOSHA : No data		
• ACGIH: TWA - 200 mg/m ³		
• EU HSPA(Hydrocarbon Solvents Producers Association) : TWA - 1,200mg/m ³		
Biological exposure limits : No data		
B. Appropriate engineering controls:		
Use with adequate ventilation.		
Good general ventilation should be sufficient to control airborne levels. If the materials may be explosive, explosion-proof facility shall be installed for		
the corresponding ventilation system. Check if the exposure is proper within the		
exposure criteria.		
C. Individual protection measures:		
Respiratory protection :		
Concentration in air determines the level of respiratory protection needed. Use only		
NIOSH certified respiratory equipment. Half-mask air purifying respirator with		
organic vapor cartridges is acceptable for exposures to ten (10) times the exposure		
limit. Full-face air purifying respirator with organic vapor cartridges is acceptable		
for exposures to fifty (50) times the exposure limit. Exposure should not exceed the		

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cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH/MSHA-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Eyes protection :

Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Hands protection :

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Protective gloves are recommended to protect against contact with product. Polyethylene; Neoprene; Nitrile; Polyvinyl alcohol; Viton;

Human body protection :

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required. The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA); Polyethylene; Neoprene; Nitrile; Viton; Polyurethane; Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse. For non-fire emergencies, positive pressure SCBA and structural firefighter's protective clothing will provide only limited protection.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

- A. Appearance (physical state, colour etc): Liquid / Colorless & Transparency
- B. Odour: Typical hydrocarbon odor
- C. pH: No data
- D. Melting point/freezing point: No Data
- E. Flash point: > 38°C (P.M.C.C)
- F. Vapour pressure: 5 mmHg (R.V.P.) at 38° C
- G. Solubility in water: Insoluble (<0.1% of Water)
- H. Vapor density: > 1 (Water=1)
- I. Specific gravity: 0.775 \pm 0.015 at 15°C
- J. Viscosity: > 1 cSt
- **K. Boiling Point:** 150~200°C
- L. Aniline Point: <68°C
- M. Copper corrosion: la for 100°C/2hr
- N. Explosion: No Data
- 0. Oxidation: No Data
- P. Molecular weight: No Data (Mixture of Hydrocarbons)

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	Section 10 - STABILITY AND REACTIVITY		
A.	Chemical stability: Stable in normal temperature and pressure, and for normal usage		
B.	Toxicant generation possibility during reaction : Will not occur.		
C.	Conditions to avoid:		
	Keep away from heat/sparks/open flames/hot surfaces and other		
	ignition sources No smoking.		
	Materials to avoid: Oxidizing agent		
E.	Toxicant during decomposition : Combustion may produce carbon monoxide, carbon		
	dioxide and other asphyxiants Section 11 - TOXICOLOGICAL INFORMATION		
Α.	Information on the likely routes of exposures:		
	nalation exposure: Harmful if inhaled		
	gestion exposure: Harmful if swallowed		
-	in exposure: Harmful if absorbed through skin		
	e exposure: No data		
-	Health hazards information:		
Acı	ite toxic		
0ra	al : LD 50 > 5000 mg/kg - rat.		
Der	rmal : LD 50 > 2000 mg/kg - rabbit.		
Inł	nalation : No data.		
Skin corrosion / irritation : No data			
	rious eye damage / eye irritation : No data		
	spiratory sensitization : N/A		
	in sensitization : N/A		
	rcinogenicity : IARC Class 3		
	rm cell mutagenicity : N/A		
-	productive toxicity : N/A		
-	ecific target organ systemic toxicity (Single exposure) : N/A ecific target organ systemic toxicity (repeated exposure) : N/A		
	biration hazard		
-	tegory 1 (Which cause concern owing to the pulmonary edema and death that they cause		
	nan and laboratory animals are aspiration toxicity hazard)		
	Section 12 - ECOLOGICAL INFORMATION		
A.	Hazardous to the aquatic environment		
Fi	ish: LC, EC, IC 50 > 1000 mg/1		
Crustacea: LC, EC, IC 50 > 1000 mg/1			
A	lgea: LC, EC, IC 50 > 1000 mg/1		
B.	B. Persistence and degradability:		
Pe	ersistence: No data		
De	egradability: No data		

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C. Bioaccumulative potential:		
Bio-accumulation : BCF 207.7		
Bio-degradability : (BiOWin 5 : rapid degraded)		
D. Mobility in soil: No Data		
E. Other adverse effects: No Data		
Section 13 - DISPOSAL CONSIDERATIONS		
A. Disposal methods: Dispose of in accordance with state, local and federal		
environmental regulations. This materials is a RCRA Hazardous waste.		
B. Disposal cautions: Do not flush material to drain or storm sewer. Contract to		
authorized disposal service.		
Section 14 - TRANSPORT INFORMATION		
A. UN Number:1268		
B. UN Proper Shipping Name : Petroleum Distillates , N.O.S.		
C. Transport hazard class(es): 3		
D. Packing group, if applicable: III		
E. Environmental hazards: No data		
F. Special precautions for user: Emergency management type of fire		
F-E Emergency menogement type of look		
Emergency management type of leak S-E		
G. Other requirements in domestic and other countries: No data		
Section 15 - REGULATORY INFORMATION		
Industrial safety and health act : Occupation environment measurement material		
Toxic chemical substance subject to management act: Not determined		
Dangerous material safety control act:		
The Second class of petroleum of the fourth class of Hazardous substance		
Dangerous material Class III		
Wastes Management act :		
Waste liquid with oil of over 5% is classified as specified wastes		
Other requirements in domestic and other countries		
 U.S. acts (OSHA, CERCLA, EPCRA, and Montreal protocol et., al.) SARA 311/312 (40CFR370.21) 		
 EC Classification 		
Classification : Carc. Cat. 2; R65		
Risk phrases : R65		
Safety phrases : S2, S23, S24, S62		
Section 16- OTHER INFORMATION		
This MSDS is made out on the basis of our knowledge and standard of EC.		
References :		
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EINECS (European Inventory of Existing Commercial chemical Substances)
IARC(International Agency for Research on Cancer.)
NIOSH (The National Institute for Occupational Safety and Health)
ACGIH (American Conference of Governmental Industrial Hygienists.)
IUCLID Dataset
ICSC (International Chemical Safety Cards)- ILO
Date of preparation of the first version : 2009-01-04
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