



**SAFETY DATA SHEET**

**1. IDENTIFICATION**

<b>Product Identifier</b>	: Spreeze Penetrating Oil
<b>Other means of identification</b>	: Solvent Penetrating Oil, Rust Penetrant
<b>Recommended use of the chemical and restrictions on use</b>	: This product is used to protect metal from rust and corrosion, help release material that sticks to rust, protect from humidity, and lubricate moving parts.
<b>Manufacturer</b>	: PT Pertamina (Persero) Jl. Medan Merdeka Timur 1A Jakarta Pusat ZIP Code 10110 Phone: 135 Email: pcc.135@pertamina.com
<b>Emergency phone number</b>	: 135

**2. HAZARD IDENTIFICATION**

<b>Classification</b>	: Specific target organ toxicity - repeated exposure, category 1 Aspiration hazard, category 1
<b>Signal word</b>	: Danger
<b>Hazard statement</b>	: <u>Health Hazard</u> H304 - May be fatal if swallowed and enters airways. H372 - Causes damage to organs through prolonged or repeated exposure.
<b>Precautionary statement</b>	: <u>Prevention</u> P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection. <u>Response</u> P314 - Get medical advice/attention if you feel unwell. P331 - Do NOT induce vomiting. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. P308 + P313 - IF exposed or concerned: Get medical advice/attention. <u>Storage</u> P405 - Store in a closed container.



**SAFETY DATA SHEET**

**2. HAZARD IDENTIFICATION**

Disposal

P501 - Dispose of contents/container according to valid disposal regulations.

**Piktogram**

:



**Other hazards which do not result in classification**

:

No data available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Concentration (%)</b>
Stoddard solvent	8052-41-3	70-80
Refined mineral oil	8012-95-1	<20
Nonionic surfactant	-	<5
Active ingredient	-	<1
Fragrance oil	-	0.2
Benzene	71-43-2	<1 mg/L
Toluene	108-88-3	<50 mg/L
Xylene	1330-20-7	<100 mg/L

**4. FIRST AID MEASURES**

**Necessary description**

- In case of eye contact** : If substance has got into eyes, immediately wash out with plenty of water.
- In case of skin contact** : Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water. Seek medical advice.
- If inhaled** : Fresh air, keep warm and at rest. Seek medical attention if ill effects occur.
- If swallowed** : Ingestion is unlikely to occur. If swallowed, do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected, obtain immediate medical attention.

**Most important symptoms/effects**

:

No data available.

**Indication of Immediate medical attention and special treatment needed, if necessary**

:

No data available.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

:

Water fog, dry chemical, carbon dioxide, or foam.



**SAFETY DATA SHEET**

**5. FIRE-FIGHTING MEASURES**

- Unsuitable extinguishing media** : Water jet.
- Specific hazards**
- **Other explosive or fire hazard** : Combustible liquid and vapor. Vapors are heavier than air and travel along surfaces to remote ignition sources dan flash back.
  - **Flash point °C** : >75 ° C suing ASTM D-93 (PMCC)
  - **Flammability value** : No data available.
  - **Hazardous chemical composition** : Smoke, fumes, and oxide of carbon.
- Special protective actions for fire fighters**
- a. **Water fog** : Spray to the origin of fire in the same direction with the wind.
  - b. **Dry chemical** : Spray to the origin of fire in the same direction with the wind.
  - c. **Carbon dioxide (CO<sub>2</sub>)** : Spray to the origin of fire in the same direction with the wind.
  - d. **Foam** : If the fire is in a container, spray the foam to inner wall of the container (not to ignited liquid) in the same direction with the wind. If the fire occurs because spill, spray to the origin of fire in the same direction with wind until all the fire covered.
- Special protective equipment for fire-fighter** : In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face pieces operated in the pressure demand or other positive pressure mode.

**6. PROCEDURES FOR SPILL AND LEAKAGE**

- Personal precautions, protective equipment, and emergency procedures** : Depending on the risk of exposure, wear gloves, goggles, and protective clothing.
- Environmental precautions** : Prevent spill into drainage, sewage system, or it seepage into the soil.
- Procedures** : Report spill according to the valid system and procedures. If spill can go into drainage or streams, do immediate report to the authority
- Methods and materials for containment and cleaning up** : Use appropriate personal protective equipment during lean up. Prevent material from entering sewers, waterways/low areas. Soak up with sawdust, sand, or other absorbent material. Collect and place in an



**SAFETY DATA SHEET**

**6. PROCEDURES FOR SPILL AND LEAKAGE**

appropriate disposal container.

**7. HANDLING AND STORAGE**

- Precautions for safe handling** : Protect agans physical damage.
- Conditions for safe storage (including any incompatibilities)** : Store in a cool, dry, well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid): observe all warnings and precautions listed for the product. Do not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

- **Exposure limit** : No data available.
- **Biological exposure indicator** : No data available.

**Appropriate engineering control**

- **Ventilation** : A system of local and/or general exhaust is recommended to keep employee exposure below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work are. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. Use explosion-proof equipment

**Individual protection measure**

- **Eye and face protection** : Use a face shield and/or chemical goggles. Maintain eye wash fountain and quick-drench facilities in work area.
- **Skin protection** : Use protective gloves. Chemical gloves should be worn to prevent repeated contact. Use full protection clothing

**SAFETY DATA SHEET****8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- **Respiratory protection** : and chemical boots.  
NIOSH approved organic vapor air purifying respirator, self contained breathing apparatus or liquid exist. Use full protective clothing and chemical boots.
- **Hygiene practices** : Wash hand thoroughly after handling.  
Do not eat or drink when using this product.  
Do not smoke while using this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Characteristic</b>	<b>Test Result</b>
<b>Organoleptik (physical appearance, color, etc)</b>	: Liquid in aerosol format, clear, yellow/orange.
<b>Odor</b>	: Slight hydrocarbon with perfume
<b>Odor threshold</b>	: No data available
<b>pH</b>	: No data available
<b>Melting/freezing point</b>	: -40 - 6 °C at 101.325 kPa*
<b>Boiling point/boiling range</b>	: >150 °C
<b>Flammability</b>	: Flammable liquid and vapor
<b>Flash point</b>	: >75 °C
<b>Evaporation rate</b>	: No data available
<b>Lower/upper flammability limit and explosion limit</b>	: No data available
<b>Vapor pressure</b>	: No data available
<b>Vapor density</b>	: No data available
<b>Relative density</b>	: No data available
<b>Solubility</b>	
• <b>Water solubility</b>	: Not soluble
• <b>Other solubility</b>	: No data available
<b>Partition coefficient (n-octanol/water)</b>	: No data available
<b>Auto-ignition temperature</b>	: 225 °C pada 101.325 kPa*
<b>Decomposition temperature</b>	: No data available
<b>Viscosity</b>	: No data available

\*data refers to ECHA Europe

**10. STABILITY AND REACTIVITY**

- Reactivity** : Hazardous substance polymerization does not occur.
- Chemical stability** : Stable under normal conditions.
- Posibility of hazardous reactions** : No hazardous reaction in normal condition.
- Conditions to avoid** : Avoid powerful acid and oxidizing agents.
- Incompatible materials** : No data available.



**SAFETY DATA SHEET**

**Hazardous decomposition products** : Incomplete combustion produces toxic gases, such CO, CO<sub>2</sub>, various form of hydrocarbons (aldehydes, etc) and soots. Inhalation is extremely dangerous.

**11. TOXICOLOGICAL INFORMATION**

**Comprehensive toxicological/health information**

- Acute toxicity** :

	Stoddard Solvent	Refined Mineral Oil
Oral	No adverse effect observed LD50 5000 mg/kg	No data available
Dermal	No adverse effect observed LD50 3000 mg/kg	No data available
Inhalation	No adverse effect observed LC50 5500 mg/m <sup>3</sup>	No data available
- Skin corrosion/ irritation** : No data available. Suspected that it may cause skin corrosion/irritation according to compound or product which has similar structure or composition.
- Serious eye damage/irritation** : No data available. Suspected that it may not cause serious eye damage or irritation according to compound or product which has similar structure or composition
- Respiratory or skin sensitization** : No data available. Suspected that it may not cause respiratory or skin sensitization according to compound or product which has similar structure or composition.
- Germ cell mutagenicity** : No data available. Suspected that it may not cause Germ cell mutagenicity according to compound or product which has similar structure or composition.
- Carcinogenicity** : No data available. Suspected that it may not cause carcinogenicity according to compound or product which has similar structure or composition.
- Reproductive toxicity** : No data available. Suspected that it may not toxic to reproductive organs according to compound or product which has similar structure or composition.
- STOT-Single exposure** : No data available. Suspected that it is not toxic to specific organs after single exposure according to compound or product which has similar structure or composition.

**SAFETY DATA SHEET****11. TOXICOLOGICAL INFORMATION**

	Stoddard Solvent	Refined Mineral Oil
• STOT- Repeated exposure :		
Oral – Systemic effects	No adverse effect observed NOAEL 1056 mg/kg bw/day (subchronic, rat)	No data available
Dermal – Systemic effects	No adverse effect observed NOAEL 37.8 mg/cm <sup>2</sup> (subchronic, rabbit)	No data available
Inhalation – Systemic effects	No adverse effect observed NOAEC 1100 mg/m <sup>3</sup> (subchronic, rat)	No data available
Inhalation – Local effects	No adverse effect observed NOAEC 1100 mg/m <sup>3</sup> (subchronic, rat)	No data available

• Aspiration hazards : May be fatal if swallowed and enters airways.

Information on the likely routes exposure : Inhaled and eye contact.

Symptoms related to the physical, chemical, and toxicological characteristics : No data available. Further testing has not been done.

Delayed and immediate effects, and also chronic effects from both short or long term exposure : No data available. Further testing has not been done.

Numerical measure of toxicity : No data available. Further testing has not been done.

Interactive effects : No data available. Further testing has not been done.

Where specific chemical data are not available : No data available. Further testing has not been done.

Mixture : No data available. Further testing has not been done..

Mixture vs. Ingredient information : No data available. Further testing has not been done.

Other in information : No data available. Further testing has not been done.



**SAFETY DATA SHEET**

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

	Stoddard Solvent	Refined Mineral Oil
Short-term toxicity to fish	LC50 freshwater fish 140 µg/L LC50 sea water fish 180 µg/L	No data available
Long-term toxicity to fish	EC10 / LC10 or NOEC freshwater fish 1.4 mg/L EC10 / LC10 or NOEC sea water fish 142 µg/L	No data available
Short-term toxicity to aquatic invertebrates	EC50 freshwater invertebrates 107 µg/L EC50 sea water invertebrates 3.5 mg/L	No data available
Long-term toxicity to aquatic invertebrates	EC10 / LC10 or NOEC freshwater invertebrates 280 µg/L EC10 / LC10 or NOEC sea water invertebrates 28 µg/L	No data available
Toxicity to algae and microbacteria	EC50 / LC50 freshwater algae 27 µg/L EC50 / LC50 sea water algae 27.7 µg/L EC10 / LC10 or NOEC freshwater algae 142 µg/L EC10 / LC10 or NOEC sea water algae 14.2 µg/L	No data available





***SAFETY DATA SHEET***

**12. ECOLOGICAL INFORMATION**

- Persistence and environment degradability** : Readily degradable (100%).
- Bioaccumulative potential** : No data available. Detailed toxic effects is related to concentration nominal value. Further testing has not been done.
- Mobility in soil** : No data available. Further testing has not been done.
- Other adverse effects** : No data available. Further testing has not been done.

**13. DISPOSAL CONSIDERATION**

- Disposal methods** : Dispose of according to local, state, and federal regulations.

**14. TRANSPORT INFORMATION**

USA DOT

- UN number** : -
- UN proper shipping name** : -
- Transport hazard class(es)** : -
- Packing group (if available)** : -
- Environmental hazard** : -
- Special precautions for user (UN model regulation)** : -

RID / ADR

- UN number** : -
- UN proper shipping name** : -
- Transport hazard class(es)** : -
- Packing group (if available)** : -
- Environmental hazard** : -
- Special precautions for user** : -

IMO

- UN number** : UN 1950
- UN proper shipping name** : Aerosol, flammable, n.o.s
- Transport hazard class(es)** : 2.1
- Packing group (if available)** : N/A
- Environmental hazard** : -
- Special precautions for user** : -

ICAO / IATA

- UN number** : -
- UN proper shipping name** : -



**SAFETY DATA SHEET**

**14. TRANSPORT INFORMATION**

Transport hazard class(es) : -  
Packing group (if available) : -  
Environmental hazard : -  
Special precautions for user : -

**15. REGULATORY INFORMATION**

**Safety, healthy, and environmental regulation (specific for the product question)** : - Peraturan Menteri Perindustrian Nomor 23/M-IND/PER/4/2013 tentang Perubahan Atas Peraturan Menteri Perindustrian Nomor 87/M-IND/PER/9/2009 Tentang Sistem Harmonisasi Global Klasifikasi dan Label pada Bahan Kimia  
- Peraturan Pemerintah Republik Indonesia Nomor 74 Tahun 2001 Tentang Pengelolaan Bahan Berbahaya dan Beracun  
- Keputusan Menteri Tenaga Kerja No Kep-187/Men/1999 tentang Pengendalian Bahan Kimia Berbahaya  
- Peraturan Menteri Kesehatan Republik Indonesia Nomor 70 Tahun 2016 tentang Standar dan Persyaratan Kesehatan Lingkungan Kerja Industri  
- ACGIH. 2016. TLVs and BEIs.

**16. OTHER INFORMATION**

Revision date of SDS : 2017

**Key/legend or acronym used in the SDS** : ACGIH® – The American Conference of Governmental Industrial Hygienists  
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road  
BEIs® – Biological Exposure Indices  
CAS No. – Chemical Abstract Service Registry Number  
ECHA – European Chemicals Agency  
IATA – The International Air Transport Association  
ICAO – The International Civil Aviation Organization  
IMO – The International Maritime Organization  
LOAEL - Lowest Observed Adverse Effect Level  
NIOSH - National Institute for Occupational Safety and Health  
NOAEL - No Observed Adverse Effect Level  
NOAEC - No Observed Adverse Effect Concentration  
RID – Regulation concerning the International Carriage of Dangerous Goods by Rail  
SCBA – Self-Contained Breathing Apparatus  
TLV - Threshold Limit Value  
UN – United Nations



**SAFETY DATA SHEET**

Key literature references and sources for data used in the SDS : USA DOT – United States Department of Transportation  
: echa.europa.eu

NFPA :



Degrees	Red	Blue	Yellow
0	Will not burn	Live ordinary material	Normally stable
1	Must be preheated to burn	Slightly hazardous	Unstable if heated – use normal precautions
2	Ignites when moderately heated	Hazardous-use breathing apparatus	Violent chemical change possible – use hose streams from distance.
3	Ignites at normal temperature	Extremely dangerous, use full protective clothing	Strong shock or heat may detonate – use monitors from behind explosion resistant barrier
4	Extremely flammable	Too dangerous to enter vapor or liquid	May detonate – vacate area if materials are exposed to fire

Degrees	White
	Radioactive



**PT PERTAMINA (PERSERO)**

Revision date : 2020  
Revision : 2<sup>nd</sup> (second)  
Page : 12 of 12

***SAFETY DATA SHEET***



Never contact  
with water

**Disclaimer**

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