



**SAFETY DATA SHEET**


**1. IDENTIFICATION**

Product identifier : Solphy 2  
Other means of identification : Petroleum Solvent  
Recommended use of the chemical and restrictions on use : This product is used for:

- Diluents for paint, lacquers, and varnish
- Solvents and diluents in printing ink industry
- Component of tire retreading
- Adhesives, pharmacy industry, cleaning and degreasing industry
- Supporting printing process in textile industry

  
Manufacturer : PT Pertamina (Persero)  
Jl. Medan Merdeka Timur 1A  
Jakarta Pusat ZIP Code 10110  
Phone: 1500-000  
Email: pcc@pertamina.com  
  
Emergency phone number : 1500-000

**2. HAZARD IDENTIFICATION**

**Classification** : Carcinogenicity, category 2  
**Signal word** : Warning  
**Hazard statement** : Health Hazard  
H351 - Suspected of causing cancer.  
**Precautionary statement** : Prevention  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
Response  
P308 + P313 - IF exposed or concerned: Get medical advice/attention.  
Storage  
P405 - Store in a closed container.  
Disposal  
P501 - Dispose of contents/container according to valid disposal regulations.  
  
**Pictogram** :   
  
**Other hazards which do not result in classification** : No data available.

**SAFETY DATA SHEET****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Concentration (%)
Light hydrocracked distillates	64741-77-1	100

**4. FIRST AID MEASURES****Necessary description**

- **In case of eye contact** : Check for contact lenses and remove if present. Flush eyes with plenty of clean water for at least 15 minutes. Call for medical attention if irritation persists.
- **In case of skin contact** : Remove contaminated clothing. Flush affected area with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. Do not use ointments. If skin surface is not damaged clean affected area thoroughly with mild soap and water. If tissue appears damaged or if pain or irritation persists, seek medical attention.
- **If inhaled** : Remove the affected person to fresh air. If not breathing, give cardiopulmonary respiration and obtain medical attention immediately.
- **If swallowed** : Do not induce vomiting, if spontaneous vomiting is about to occur, place victim's head below knees. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention immediately.

**Most important** : No data available.

**symptoms/effects**

**Indication of Immediate** : No data available.

**medical attention and special treatment needed, if necessary****5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media** : Small Fire: foam, carbon dioxide, dry chemical, water fog.  
Large Fire: foam, water fog or water spray.

**Unsuitable extinguishing media** : Water jet.

**Specific hazards**

- **Other explosive or fire hazard** : This material releases vapor when heated above ambient temperatures. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, others flames and ignition sources at location distant from material handling point.

**Flash point °C** : PMCC 36 - 60°C (COQ)

**Flammability value** : No data available.

**Hazardous chemical composition** : Carbon dioxide, carbon monoxide, fumes, smoke, and / or unburned hydrocarbons

**Special protective actions for**



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**5. FIRE-FIGHTING MEASURES**

**fire fighters**

- a. 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.
- b. Carbon dioxide (CO<sub>2</sub>)** : Spray to the origin of fire in the same direction with the wind.
- c. Dry chemical** : Spray to the origin of fire in the same direction with the wind.
- d. Water fog or spray** : Spray to the origin of fire in the same direction with the wind.
- Special protective equipment for fire-fighter** : Wear a self-contained breathing apparatus with a full face piece and chemical resistant personal protective equipment to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment, and emergency procedures** : Evacuate all non-essential personnel from area. Eliminate all ignition sources. All equipment used when handling this material must be grounded.
- 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** : Small spill  
Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Absorb liquid with sand, floor absorbent, or other absorbent material.  
Large spill  
Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams, or other bodies of water. Prevent from spreading. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

**7. HANDLING AND STORAGE**

- Precautions for safe handling** : Keep containers closed when not in use. Do not handle or store near an open flame, heat, or other potential ignition

**SAFETY DATA SHEET****7. HANDLING AND STORAGE**

sources. Protect container from direct sunlight, oxidizing materials and against physical damage. Empty containers may contain hazardous product residue. Do not reuse empty containers without commercial cleaning or reconditioning.

**Conditions for safe storage (including any incompatibilities)** : Store in a cool, dry, well-ventilated area, away from heat and ignition sources.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

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

**Appropriate engineering control**

- **Ventilation** : Work in well ventilated areas using good engineering practices to process, transfer and store.

**Individual protection measures**

- **Eye and face protection** : Safety glasses with side shields are recommended, eyewash fountain should be.
- **Skin protection** : Use chemical-resistant gloves.  
The selection of personal protective equipment varies depending upon conditions of use.
- **Respiratory protection** : Wear approved respiratory protective equipment, when vapor or mist concentrations exceed applicable standards.
- **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**

Characteristic	Test Result
Organoleptic (physical appearance, color, etc)	: Liquid, clear
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting/freezing point	: -40 - 6 °C pada 101.325 kPa*
Boiling point/boiling range	: 168 °C
Flammability	: Flammable liquid and vapor
Flash point	: PMCC 36 – 60 °C
Evaporation rate	: No data available
Lower/upper flammability limit and explosion limit	: No data available
Vapor pressure	: No data available

**SAFETY DATA SHEET****9. PHYSICAL AND CHEMICAL PROPERTIES**

Characteristic	Test Result
Vapor density	: No data available
Relative density	: 790.1 kg/m <sup>3</sup> t 15°C
Solubility	
• Water solubility	: Not soluble
• Other solubility	: Soluble
Partition coefficient (n-octanol/water)	: -0.42
Auto-ignition temperature	: 225 °C at 101.325 kPa*
Decomposition temperature	: No data available
Viscosity	: 1.356 cSt at 23°C

\*Data refers to ECHA Europe

**10. STABILITY AND REACTIVITY**

Reactivity	: Hazardous substance polymerization does not occur.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No hazardous reaction in normal condition.
Conditions to avoid	: Keep away from heat, flame, and other potential ignition sources.
Incompatible materials	: Strong acids, alkalis or oxidizing agents
Hazardous decomposition products	: Carbon dioxide, carbon monoxide, fumes, smoke, and/or unburned hydrocarbons

**11. TOXICOLOGICAL INFORMATION****Comprehensive toxicological/health information**

- **Acute toxicity** : Oral: No adverse effect observed LD50 17 mg/kg (rat).  
Inhalation: Adverse effect observed LC50 4100 mg/m<sup>3</sup> (rat).  
Dermal: No adverse effect observed LD50 4300 mg/kg (rabbit).
- **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 is not mutagen according to compound or product which has similar structure or composition.
- **Carcinogenicity** : Suspected of causing cancer.
- **Reproductive toxicity** : Effect on developmental toxicity:

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

- Dermal:  
Adverse effect observed NOAEL 125 mg/kg bw/day (subacute, rat)
- Inhalation:  
No adverse effect observed NOAEC 2110 mg/m<sup>3</sup> (subacute, rat)
- **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.
  - **STOT-repeated exposure** : Dermal – systemic effects:  
Adverse effect observed NOAEL 30 mg/kg per day (subchronic, rat)  
Inhalation – systemic effects:  
No adverse effect observed NOAEC 1710 mg/m<sup>3</sup> (subchronic, rat)  
Inhalation – local effects:  
Adverse effect observed NOAEC 880 mg/m<sup>3</sup> (subchronic, rat)
  - **Aspiration hazards** : No data available. Suspected that it is not aspiration hazards. This statement comes from compounds or products which have similar structures or compositions.
- Information on the likely routes exposure** : Inhaled and skin 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 formation** : No data available. Further testing has not been done.

**12. ECOLOGICAL INFORMATION**

- Ecotoxicity** : Short-term toxicity to fish:  
LL50 (4 days) 21 - 65 mg/L  
Short-term toxicity to aquatic invertebrates:  
EL50 (48 h) 68 - 210 mg/L  
Toxicity to aquatic algae and cyanobacteria:

**SAFETY DATA SHEET****12. ECOLOGICAL INFORMATION**

	EL50 (72 h) 10 - 22 mg/L
Persistence and 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	: Discard any product, residue, disposal container or liner in accordance with local regulation.
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**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 proper shipping name	: -
Transport hazard class(es)	: -
Packing group (if available)	: -
Environmental hazard	: -
Special precautions for user	: -

**ICAO / IATA**

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



## SAFETY DATA SHEET

## 15. REGULATORY INFORMATION

- Safety, health, and environmental regulation (specific for the product in 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 Presiden Republik Indonesia
  - 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** : 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.*
  - 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 Values
  - UN – United Nations
  - USA DOT – United States Department of Transportation
- Key literature references and sources for data used in the SDS** : echa.europa.eu
- NFPA** :

Degrees	Red	Blue	Yellow
0	Will not burn	Live ordinary material	Normally stable



**SAFETY DATA SHEET**

**16. OTHER INFORMATION**



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 temperatures	Extremely dangerous – use full protective clothing	Strong shock or heat may detonate - use monitors from behind explosion resistant barriers
4	Extremely flammable	Too dangerous to enter vapor or liquid	May detonate – vacate area if materials are exposed to fire

White	
	Radioactive
	Never contact with water

**Disclaimer**

The information is composed based on current knowledge and intended to describe safety, health, and environment hazard of the product. Therefore, it should not be construed as guarantee any specific property of the product. All risks while using this product is the user's responsibility. It is not allowed to make change of this document, except there is legal consent.