# Safety Data Sheet

According to Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (GHS)

## SECTION 1: Identification

**Product Identifier:** **HYDROKOOL™ SS**
**Code:** **LBPH778736**
**Other means of identification:** Phillips 66® HYDROKOOL™ SS
**Recommended use of the chemical and restrictions on use:**
**Recommended use:** Metalworking Fluid
**Restrictions on use:** All others
**24 Hour Emergency Phone Number:** CHEMTREC Global +1 703 527 3887
CHEMTREC Australia +612 9037 2994

**Details of manufacturer or importer:**

**Manufacturer/Supplier**
Phillips 66 Lubricants
A Division of Phillips 66 Company
P.O. Box 421959
Houston, Texas 77242-1959

**SDS Information**
Phone: 800-762-0942
Email: SDS@P66.com
URL: www.Phillips66.com/SDS

**Customer Service**
U.S.: 800-368-7128 or International: 1-832-765-2500
**Technical Information**
1-877-445-9198

**Australian Importer**
Oil & Energy Pty Ltd
20 Ambitious Link
Bibra Lake WA 6163

**Australian Importer**
Pacific Petroleum Products
1628 Ipswich Rd
Rocklea QLD 4106

## SECTION 2: Hazard identification

**Classified Hazards**

H317 -- Skin sensitisation -- Category - 1
H319 -- Eye damage/irritation -- Category 2A

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

PHNOC: None known

HHNOC: None known

**Label elements, including precautionary statements**

### WARNING

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

**Precautionary Statements**
**Prevention:** P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash skin thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing and eye/face protection.
**Response:** P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
**Disposal:** P501 - Dispose of contents/ container to an approved waste disposal plant.

## SECTION 3: Composition/information on ingredients

**Mixture**

| Chemical Name | CASRN | Concentration[1] |
|---|---|---|
| Lubricant Base Oil (Petroleum) | VARIOUS | <20 |
| Triethanolamine | 102-71-6 | 5-7.49 |

| | | |
|---|---|---|
| Alcohols, C12-16, ethoxylated | 68551-12-2 | 2.5-4.99 |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol | 4719-04-4 | 1-2.49 |

[1] All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## SECTION 4: First aid measures

**Description of necessary first aid measures**

**Eye Contact:** For direct contact, remove contact lenses if present and easy to do. Immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 20 minutes. Seek immediate medical attention.

**Skin Contact:** Immediately flush affected area(s) with large amounts of water while removing contaminated shoes, clothing, and constrictive jewelry. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse the affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops, seek immediate medical attention. Wash contaminated clothing before reuse.

**Inhalation:** First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. Seek immediate medical attention.

**Ingestion:** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Symptoms caused by exposure:** Inhalation of oil mists or vapours generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea and diarrhea. Prolonged or repeated contact may dry skin and cause irritation.

**Medical Attention and Special Treatment:** Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

## SECTION 5: Firefighting measures

**Suitable Extinguishing Media:** Use extinguishing agent suitable for type of surrounding fire

**Specific hazards arising from the chemical**

**Unusual Fire & Explosion Hazards:** No unusual fire or explosion hazards are expected.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulphur, nitrogen or phosphorus may also be formed.

**Special protective equipment and precautions for fire-fighters:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapours and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

**Hazchem code:** None

**See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits**

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorised personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop and contain spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorised drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification.

**Methods and material for containment and cleaning up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

## SECTION 7: Handling and storage

**Precautions for safe handling:** Avoid breathing vapours or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Spills will produce very slippery surfaces. Do not enter confined spaces such as tanks or pits without following proper entry procedures. Do not wear contaminated clothing or shoes.

**Conditions for safe storage, including any incompatibilities:** Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to appropriate guidance pertaining to cleaning, repairing, welding, or other contemplated operations. Use and store this material in cool, dry, well-ventilated areas.

## SECTION 8: Exposure controls/personal protection

**Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.**

| Exposure control measures | | | |
|---|---|---|---|
| **Chemical Name** | **ACGIH** | **Australia (HCIS)** | **Phillips 66** |
| Lubricant Base Oil (Petroleum) | TWA-8hr: 5 mg/m³<br>STEL: 10 mg/m³<br>as Oil Mist, if Generated | None | None |
| Triethanolamine | TWA-8hr: 5 mg/m³ | TWA-8hr: 5 mg/m³ | None |

| Biological Limit Values |
|---|
| This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies |

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection (such as splash goggles) is recommended when there is potential liquid contact to the eye. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile rubber

**Respiratory Protection:** Where there is potential for airborne exposure above the exposure limit an approved air purifying respirator equipped with Type P2 - Medium efficiency particle filters may be used. A respiratory protection programme that follows

recommendations for the selection, use, care and maintenance of respiratory protective devices in EN 529:2005 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health.

**Other Protective Equipment:** Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse.

**Environmental Exposure Controls:** Refer to Sections 6, 7, 12 and 13.

**Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.**

## SECTION 9: Physical and chemical properties

Data represent typical values and are not intended to be specifications. N/A = Not Applicable; N/D = Not Determined

| | |
|---|---|
| **Appearance** | Amber Transparent |
| **Physical form of product** | Liquid |
| **Odour:** | Mild, Characteristic |
| **Odour threshold:** | N/D |
| **pH** | 9.6-10.2 |
| **Melting / freezing point** | 0 °C |
| **Initial boiling point and boiling range** | N/D |
| **Flash point** | N/D |
| **Method:** | Not applicable |
| **Evaporation Rate (nBuAc=1):** | N/D |
| **Flammability (solid, gas)** | N/D |
| **Upper Explosive Limits (vol % in air):** | N/D |
| **Lower Explosive Limits (vol % in air):** | N/D |
| **Vapour pressure:** | N/D |
| **Vapour density:** | N/D |
| **Relative density:** | 1.035-1.05 g/cm3 (water = 1) |
| **Solubility(ies):** | N/D |
| **Partition coefficient n-octanol /water (log KOW)** | N/D |
| **Autoignition temperature** | N/D |
| **Decomposition temperature** | N/D |
| **Viscosity** | N/D |

**Other physical or chemical parameters relevant to health and safety**

No additional relevant information.

| | |
|---|---|
| **Pour point** | N/D |
| **Bulk Density:** | N/D |
| **VOC content (%):** | 67.2 g/L ASTM E 1868 |

## SECTION 10: Stability and reactivity

**Reactivity:** Not chemically reactive.

**Chemical stability:** Stable under normal ambient and anticipated conditions of use.

**Possibility of Hazardous Reactions:** Hazardous reactions not anticipated.

**Conditions to Avoid:** Stable under normal ambient and anticipated conditions of use.

**Incompatible Materials:** Avoid contact with strong oxidizing agents and strong reducing agents.

**Hazardous Decomposition Products:** Not anticipated under normal conditions of use.

## SECTION 11: Toxicological information

**Information on Toxicological Effects**

**Substance / Mixture**

| Acute Toxicity | Hazard | Additional Information | LC50/LD50 Data |
|---|---|---|---|
| | | | |
| **Inhalation** | Unlikely to be harmful | | >5 mg/L (mist, estimated) |
| | | | |
| **Dermal** | Unlikely to be harmful | | > 2 g/kg (estimated) |
| | | | |
| **Oral** | Unlikely to be harmful | | > 5 g/kg (estimated) |
| | | | |

**Likely Routes of Exposure:** Inhalation, eye contact, skin contact

**Skin Corrosion/Irritation:** Not expected to be irritating.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Skin Sensitisation:** May cause an allergic skin reaction. Based on component information

**Respiratory Sensitisation:** No information available.

**Germ Cell Mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

**Carcinogenicity:** No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

**Reproductive Toxicity:** No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

**Specific Target Organ Toxicity (Single Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Specific Target Organ Toxicity (Repeated Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Aspiration Hazard** Not expected to be an aspiration hazard.

**Information on Toxicological Effects of Components**

**Lubricant Base Oil (Petroleum)**

*Carcinogenicity:* The petroleum base oils contained in this product have been highly refined by a variety of processes including severe hydrocracking/hydroprocessing to reduce aromatics and improve performance characteristics. All of the oils meet the IP-346 criteria of less than 3 percent PAH's and are not considered carcinogens by NTP, IARC, or OSHA.

## SECTION 12: Ecological information

**Ecotoxicity:** Not expected to be harmful to aquatic life.

**Persistence and Degradability:** Substances not considered as readily biodegradable. However, persistence and biodegradability of the substances are dependent on environmental conditions.

**Bioaccumulative Potential:** Material is expected to possess low bioaccumulation potential.

**Mobility in Soil:** Due to its high water solubility, it will not adsorb to particulate matter or surfaces and is expected to have high mobility in soil and sediments.

**Other adverse effects:** None anticipated.

## SECTION 13: Disposal considerations

**Disposal Recommendations:** This material under most intended uses would become "waste oils" due to contamination by physical or chemical impurities. Whenever possible, recycle "waste oils" in accordance with current national and regional provisions.

**Empty Containers:** Container contents should be completely used and containers emptied prior to discard. Empty drums should be properly sealed and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with applicable regulations.

## SECTION 14: Transport information

**UN Number:** Not regulated
**UN proper shipping name:** None
**Transport hazard class(es):** None
**Packing Group:** None
**Environmental Hazards:** This product does not meet the ADG/UN/IMDG/IMO criteria of a marine pollutant
**Special precautions for user:** If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable
**Hazchem code:** None

## SECTION 15: Regulatory information

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)**
No Poisons Schedule number allocated.

**National Pollutant Inventory (NPI)**
Not listed

**The Montreal Protocol on Substances that Deplete the Ozone Layer**
Not applicable

**The Stockholm Convention on Persistent Organic Pollutants**
Not applicable

**The Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade**
Not applicable

**Control of Transboundary Movements of Hazardous Wastes and their Disposal (Basel Convention)**
Not applicable

**Inventory Status:**
All components are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.

## SECTION 16: Other information

| Issue date | Previous Issue Date: | SDS Number | Status: |
|---|---|---|---|
| | | | |

| | | | |
|---|---|---|---|
| 11-Sep-2020 | None | LBPH778736 | FINAL |

**Revised Sections or Basis for Revision:**
Format change

**Precautionary Statements:**
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash skin thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/ container to an approved waste disposal plant

**Guide to Abbreviations:**
ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); GHS = Globally Harmonized System; HCIS = Hazardous Chemical Information System; IARC = International Agency for Research on Cancer; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NTP = National Toxicology Program; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit;

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