

【Material Safety Data Sheet】

Target of this document: All user and work manager of this product including manufacturing worker, dealer and transportation.

1) Chemical Product and Company Identification

Product/Chemical Name	BW COMP-46SE	
General Characteristics	light yellow transparent liquid (mixture)	
Identification of Hazard	Irritable	
General Use	Compressor oil	
Manufacturer	Buhmwoo Chemical Industrial Company Limited. Address: 1248-2 Jeongwang-Dong, Siheung-si, Gyeonggi-do, Korea	TEL +82-31-497-8171/4
Urgent Contact	Heat treatment & Metal Forming Research Team BUHMWOO INSTITUTE OF TECHNOLOGY RESEARCH	TEL +82-31-358-8200
Supplier/Dealer	Buhmwoo Chemical Industrial Company Limited. Address: 1248-2 Jeongwang-Dong, Siheung-si, Gyeonggi-do, Korea	TEL +82-31-497-8171/4
Writer/Department	Heat treatment & Metal Forming Research Team BUHMWOO INSTITUTE OF TECHNOLOGY RESEARCH	TEL +82-31-358-8200
Home-Page/e-Mail Address	www.buhmwoo.com / hydro@buhmwoo.com	
Issued Date	4th July, 2011	
Revision No./Revision Date	Revision No. 0	

2) Composition/Information on Ingredients

Chemical Name	Synonyms	CAS NO	Contents (%)
Mineral Oil		64742-54-7	85 - 95
S1		Confidential	5 - 15
S2		Confidential	<1

3) Hazard Identification (Based on presence of component)

Acute Effects	KOSHA, NTP, OSHA, IARC do not list all the raw material using in this product as carcinogen. NFPA index: Health=1, Fire =1, Reactivity=0
Eye Contact	Short-term: No data available Long-term: No data available
Skin Contact	Short-term: No data available. Long-term: No data available
Inhalation	Short-term: No data available Long-term: No data available
Ingestion	Short-term: No data available Long-term: No data available.
Chronic effect	Short-term: No data available. Long-term: No data available

4) First Aid Measures

Eye Contact	Flush the eye continuously for more 15 minutes with flooding clean water and consult an ophthalmologist immediately
Skin Contact	Quickly remove the contaminated clothing. Wash exposed area with soap and water. Consult a physician as needed.
Inhalation	Remove exposed person to fresh air and administer 100% humidified supplemental oxygen with assisted ventilation as needed.
Ingestion	Do not induce vomiting and contact the physician.
Note to Physicians	Treat symptomatically.

5) Fire-Fighting Measures

OSHA Fire Index	III B		
Flash Point	240 °C	Auto ignition Temperature	No data available
Min. Temperature of Ignition	No data available	Max. Temperature of Ignition	No data available
Extinguishing Media	Carbon Oxide, Carbon Dioxide		
Fire-Fighting Instructions & Fire-Fighting Equipment	<ul style="list-style-type: none">■ As beginning the fire, use regular foam, dry chemical, carbon dioxide and halon.■ For small fires, can be used water spray around the hazard area.■ For large fires, use water spray and regular foam.		
Hazardous Combustion Products	Carbon Oxide, Carbon Dioxide		
Prohibited Extinguishing Media	No data available		

6) Accidental Release Measures

Human-Body Measures	Protection	<ul style="list-style-type: none">■ Wear the protective clothing/equipments, and cleanup the spilled product when product is spillt.
Environmental Measures	Protection	<ul style="list-style-type: none">■ Remove the spilled product using absorbent material because the product does not contain any hazard ingredients.
Cleanup		<ul style="list-style-type: none">■ Remove and prevent from extending by absorbent material, saedust and sand.

7) Handling & Storage

Handling Precautions	<ul style="list-style-type: none">■ Use in well ventilated place.■ Keep away from heat and ignition sources.■ Do not reach to children.■ Protect against skin and eye contact.■ Wear fitable protective clothing/equipment as needed.
Storage Requirements	<ul style="list-style-type: none">■ Store in tightly closed container in a cool, well-ventilated area away from heat and ignition sources and incompatibles.■ Close the container tightly after using in the case of drum container.

8) Exposure Controls/Personal Protection

Engineering Controls	<ul style="list-style-type: none">■ Store in the indoor if possible.■ Close the cap in order to prevent from leakage cap after using,■ Check the permissible concentration and use local ventilator.
Respiratory Protection	<ul style="list-style-type: none">■ Wear chemically protective mask in high concentration area but it is not required normally.
Eye Protection	<ul style="list-style-type: none">■ Wear chemically protective goggles.
Hand Protection	<ul style="list-style-type: none">■ Wear chemically protective gloves.
Body Protection	<ul style="list-style-type: none">■ Wear chemically protective boots and clothing.
Sanitary Precautions	<ul style="list-style-type: none">■ Protect skin using protective cream after cleaning the skin.
Permissible Concentration (TWA)	<ul style="list-style-type: none">■ In the product, Paraffinic Mineral Oil 5mg/m³ in KOSHA.

9) Physical & Chemical Properties

Appearance	Light yellow transparent	Saturated Vapor Density	No data available
Odor	Hydrocarbon like	Vapor Pressure	No data available
p H	Not applicable	Specific Gravity (15/4 °C)	0.86
Water solubility	Insoluble	Formula Weight	No data available
Boiling Point	No data available	Vapor Density	No data available
Melting Point	No data available	Viscosity(40 °C, mm ² /s)	46

10) Stability & Reactivity

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| Chemical Stability | ■ | Stable under normal pressure and temperature. |
| Chemical Incompatibilities and Conditions to Avoid | ■ | Oxidants, direct ray of light, water and any heat and ignition source. |
| Hazardous Products Decomposition | ■ | Carbon oxide and bad smell in severe case. |
| Hazardous Products at Reaction | ■ | This product will not react with other material |

11) Toxicological Information

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|-----------------------------|---|---|
| Acute Oral Effects | ■ | No data available |
| Acute Inhalation effects | ■ | Vomit, nausea, dizziness |
| Multiple Dose Toxicity Data | ■ | No data available. |
| Carcinogen | ■ | Not applicable (KOSHA, NTP, OSHA, IARC) |

12) Ecological Information

- No data reported.

13) Diposal Consideration

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| Regulations | ■ | Contact your supplier or a licensed contractor for detailed recommendations, |
| Disposal Method | ■ | Follow applicable Federal, State and local regulations. |
| Disposal Precautions | ■ | Wear protective clothing/equipment. |
| | ■ | Empty container can be blow up under higher pressure. |
| | ■ | Empty container can be fired and ignited when heating, cutting and welding. |

14) Transportation & Labeling

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| Regulations | ■ | Contact your supplier or a licensed contractor for detailed recommendations, |
| | ■ | Follow applicable Federal, State and local regulations. |
| Precautions | ■ | Keep away from heat and ignition source, |
| | ■ | Tight the cap of the container to prevent water input. |

15) Other Regulatory Information

- No data available.

16) References

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| References | ■ | Raw material MSDS from Manufacturer/Supplier. |
| | ■ | The Information of Buhmwoo Institute of Technology Reasearch. |

The product is intended only for commercial/industrial processing or application. This information is based on the information from and the raw material company, and is intended to describe the product for the purposes of health, safety and environmental requirements only. Therefore, it should not be construed as gauranteeing any specific property of the product. To the best of our knowledge, the information contained herein is correct and accurate. However, Buhmwoo Chemical Company Ltd does not assume any liability whatsoever for the correctness or accuracy of information contained herein. The precautionery items were based on ordinary handling, in case of special handling, safety measures in compliance with the application and usage shall be executed. Final determination of safety and suitability of any material is the sole responsibility of the keeper end user. All materials may present unknown hazards are described herein but they may not be the only hazards in relation to the products. For more information, contact our Internet Home Page (www.buhmwoo.com) and send e-mail to us.