



1. Chemical product and company identification

Product name	Optisil WX Spray
MSDS #	DE-09525, AT-3177, UK-3609, IT-09525, US-68851-AG, SL-9525, PL-9525, RU-9525, EST-9525, LI-9525, CZ-509525
Code	DE-09525
Product use	Lubricant (Aerosol.)
Manufacturer	Deutsche BP Aktiengesellschaft Industrial Lubricants & Services Erkelenzer Straße 20, D-41179 Mönchengladbach Germany
Supplier	Castrol Industrial North America, Inc. 150 W. Warrenville Road Naperville, IL 60563 Product Information: 1-800-621-2661
EMERGENCY SPILL INFORMATION:	1 (800) 424-9300 CHEMTREC (USA) Germany: Carechem: +44 (0) 208 762 8322

2. Composition/information on ingredients

Ingredient name	CAS #	% by weight
Naphtha (petroleum), hydrotreated light (Hydrocarbon solvent)	64742-49-0	25 - 30
Butane	106-97-8	35 - 40
Propane	74-98-6	30 - 35
propan-2-ol	67-63-0	1 - 5

3. Hazards identification

Physical state	Liquid. (Aerosol.)
Color	Not available.
Emergency overview	DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. ASPIRATION HAZARD. Harmful or fatal if liquid is aspirated into lungs. AT VERY HIGH CONCENTRATIONS, CAN DISPLACE THE NORMAL AIR AND CAUSE SUFFOCATION FROM LACK OF OXYGEN. CAUSES SKIN IRRITATION. MAY CAUSE EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. Do not ingest. If ingested do not induce vomiting. Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Keep away from heat, sparks and flame. Keep container closed. Use with adequate ventilation. Use only with adequate ventilation Wash thoroughly after handling.
Routes of entry	Dermal contact. Eye contact. Inhalation. Ingestion.

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Potential health effects

Eyes	May cause eye irritation.
Skin	Causes skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Harmful on prolonged exposure.
Inhalation	May cause respiratory tract irritation. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen. Harmful on prolonged exposure.
Ingestion	Aspiration hazard if swallowed -- harmful or fatal if liquid is aspirated into lungs.
Medical conditions aggravated by over-exposure	None identified.

See toxicological information (section 11)

4. First aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if irritation develops.
Ingestion	If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed- can enter lungs and cause damage. Get medical attention.

5. Fire-fighting measures

Flammability of the product	Flammable.
Flash point	-60 °C (Closed cup)
Explosion limits	Lower: 1.5 % Upper: 9.5 %
Products of combustion	These products are carbon oxides (CO, CO ₂). Some metallic oxides.
Unusual fire/explosion hazards	Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Fire-fighting media and instructions	In case of fire, use water fog, foam, dry chemicals, or carbon dioxide. DO NOT FIGHT FIRE WHEN IT REACHES MATERIAL. Withdraw from fire and let it burn. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. First move people out of line-of-sight of the scene and away from windows. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Protective clothing (fire)	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures"). Do not touch or walk through spilled material.
Environmental precautions and clean-up methods	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways. See Section 13 for Waste Disposal Information.

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7. Handling and storage

Handling

Aspiration hazard if swallowed- can enter lungs and cause damage. Do not ingest. If ingested do not induce vomiting. Avoid contact with skin and clothing. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.

Storage

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name

Occupational exposure limits

Naphtha (petroleum), hydrotreated light (Hydrocarbon solvent)
Butane

None assigned.

Propane

ACGIH TLV (United States, 1/2005).

TWA: 1000 ppm 8 hour(s).

ACGIH TLV (United States, 1/2005).

TWA: 1000 ppm 8 hour(s).

OSHA (United States).

TWA: 1800 mg/m³ 8 hour(s).

OSHA PEL (United States, 8/1997).

TWA: 1800 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

propan-2-ol

ACGIH TLV (United States, 1/2005).

STEL: 400 ppm 15 minute(s).

TWA: 200 ppm 8 hour(s).

OSHA PEL (United States, 8/1997).

TWA: 980 mg/m³ 8 hour(s).

TWA: 400 ppm 8 hour(s).

Control Measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protection

Eyes

Avoid contact with eyes. Chemical splash goggles.

Skin and body

Avoid contact with skin and clothing. Wear clothing and footwear that cannot be penetrated by chemicals or oil.

Respiratory

Use only with adequate ventilation. If operating conditions cause high vapor concentrations or TLV is exceeded, use supplied-air respirator. Avoid breathing vapor or mist.

Hands

Wear gloves that cannot be penetrated by chemicals or oil.

Not available.



Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state	Liquid. (Aerosol.)
Odor	Mild.
Boiling point / Range	<35 °C
Density	<1000 kg/m ³ (<1 g/cm ³) at 20°C
Vapor pressure	299.202 to 797.872 kPa (2250 to 6000 mm Hg) at 20°C
Solubility	insoluble in water.

10. Stability and reactivity

Stability and reactivity	The product is stable.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). High temperatures
Incompatibility with various substances	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Not available.
Hazardous polymerization	Will not occur.

11. Toxicological information

Chronic toxicity

Carcinogenic effects

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

Mutagenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

Reproductive effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

Teratogenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

12. Ecological information

Ecotoxicity	No testing has been performed by the manufacturer.
Persistence/degradability	Inherently biodegradable
Mobility	Volatile. Liquid. Insoluble in water.

13. Disposal considerations





Waste information	Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.
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Consult your local or regional authorities.

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14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1950	AEROSOLS, flammable	2.1	Not applicable.		Not available.
TDG Classification	UN1950	AEROSOLS, flammable	2.1	Not applicable.		Not available.
IMDG Classification	UN1950	AEROSOLS	2.1	Not applicable.		Emergency schedules (EmS) F-D, S-U
IATA Classification	UN1950	AEROSOLS, flammable	2.1	Not applicable.		Not available.

15. Regulatory information

U.S. Federal regulations

US INVENTORY (TSCA): In compliance.

TSCA 12(b) one-time export notification:: propan-2-ol

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Optisil WX Spray: Fire hazard, Sudden Release of Pressure, Immediate (Acute) Health Hazard

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	propan-2-ol	67-63-0	3.85
Supplier notification	propan-2-ol	67-63-0	3.85

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: 1,3-butadiene: 10 lbs. (4.536 kg);

State regulations

Massachusetts RTK:Butane; Propane; propan-2-ol

New Jersey:Butane; Propane; propan-2-ol

Pennsylvania RTK:Butane (generic environmental hazard); Propane (generic environmental hazard); propan-2-ol (environmental hazard, generic environmental hazard)

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
1,3-butadiene

Inventories

AUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): Not determined.

CHINA INVENTORY (IECS): Not determined.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): In compliance.

KOREA INVENTORY (ECL): Not determined.

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16. Other information

Label requirements

DANGER!
 EXTREMELY FLAMMABLE LIQUID AND VAPOR.
 VAPOR MAY CAUSE FLASH FIRE.
 ASPIRATION HAZARD.
 Harmful or fatal if liquid is aspirated into lungs.
 AT VERY HIGH CONCENTRATIONS, CAN DISPLACE THE NORMAL AIR AND CAUSE SUFFOCATION FROM LACK OF OXYGEN.
 CAUSES SKIN IRRITATION.
 MAY CAUSE EYE IRRITATION.
 MAY CAUSE RESPIRATORY TRACT IRRITATION.

HMIS® Rating :

Health 2 -
Flammability 3
Physical Hazard 0
Personal protection B

National Fire Protection Association (U.S.A.)



History

Date of issue 11/11/2005.
Date of previous issue No Previous Validation.
Prepared by Product Stewardship

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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