



Revision Date: 05/01/2015

SAFETY DATA SHEET

1. Identification

Identification

Product name: POWERZOL(TM) 9049

Additional identification

Chemical name: Mixture

Recommended use and restriction on use

Recommended use: Not determined. **Restrictions on use:** Not determined.

Details of the supplier of the safety data sheet

Supplier

Company Name: THE LUBRIZOL CORPORATION
Address: 29400 LAKELAND BOULEVARD
WICKLIFFE, OH 44092-2298

US

Telephone: (440)943-1200

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300 (LUBRIZOL)

Category 4

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 4

Health Hazards

Acute toxicity (Inhalation - dust

and mist)

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Category 2A

Irritation

Unknown toxicity

Acute toxicity, oral 0.0 %
Acute toxicity, dermal 0.0 %
Acute toxicity, inhalation, vapor 88.7 %
Acute toxicity, inhalation, dust 73.7 %
or mist

Label Elements:

Hazard Symbol:



Signal Word: Warning



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Hazard Statement: Combustible liquid.

Harmful if inhaled. Causes skin irritation.

Causes serious eye irritation.

Precautionary Statement:

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only

outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection.

Response: IF INHALED: Remove person to fresh air and keep comfortable

for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see this label). Take off contaminated clothing. In case of fire: Use CO2, dry chemical or foam for extinction. Water can be used to cool

and protect exposed material.

Storage: Store in well-ventilated place. Keep cool.

Disposal: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result

in GHS classification:

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded

equipment. Sparks may ignite liquid and vapor. May cause

flash fire or explosion.

3. Composition/information on ingredients

Chemical name	CAS number	Percent by Weight
Petroleum naphtha	64742-48-9	20 - 30%
2-Ethylhexanol	104-76-7	10 - 20%
Mineral oil	64742-54-7	1 - 5%

4. First-aid measures

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER/doctor/.../if you feel unwell.

Skin Contact: Take off contaminated clothing and wash before re-use. Wash skin

thoroughly with soap and water. If skin irritation occurs, get medical

attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.



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Most important symptoms/effects, acute and delayed

Symptoms: See section 11.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

CO2, Dry chemical or Foam. Water can be used to cool and protect

exposed material.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective

equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

Eliminate all ignition sources if safe to do so. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

basements of commed at

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.



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7. Handling and storage

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Observe good industrial hygiene practices. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling.

Launder contaminated clothing before reuse.

Maximum Handling

Temperature:

50 °C 122 °F

Conditions for safe storage,

including any incompatibilities:

Keep cool. Store in a well-ventilated place. Do not store near potential

sources of ignition.

Maximum Storage Temperature:

45 °C 113 °F

8. Exposure controls/personal protection

Control Parameters:

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)

Appropriate engineering controls:

No special requirements under ordinary conditions of use and with adequate ventilation. Use material in well ventilated area only. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

level.

Eye/face protection: Wear tight-fitting goggles or face shield.

Skin Protection

Hand Protection: Use nitrile or neoprene gloves. Use good industrial hygiene practices. In

case of skin contact, wash hands and arms with soap and water.

Other: Wear apron or protective clothing in case of contact. Do not wear rings,

watches or similar apparel that could entrap the material.

Respiratory Protection: A respiratory protection program compliant with all applicable regulations

must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into

confined space, for other poorly ventilated areas and for large spill clean-up

sites.



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Hygiene measures: Observe good industrial hygiene practices. Avoid contact with skin. Avoid

contact with eyes. Wash contaminated clothing before reuse. When using do not smoke. Wash hands before breaks and immediately after handling

the product.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Dark red
Odor: Mild

Odor threshold:No data available.pH:No data available.Freezing point:No data available.Boiling Point:No data available.

Flash Point: 153 °F (67 °C) (Pensky-Martens Closed Cup)

Evaporation rate:No data available. **Flammability (solid, gas):**No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure:

No data available.

No data available.

No data available.

Relative density: 0.872 - 0.912 60.1 °F (15.6 °C)

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
Auto-ignition temperature:
No data available.
No data available.
No data available.

Viscosity: 225 mm2/s (104 °F (40 °C)) 2,600 mm2/s (0 °C (32 °F))

Other information

Bulk density: 7.44 lb/gal 77 °F (25 °C)

Pour Point Temperature: -65 °F (-54 °C)

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous

Will not occur.

Reactions:

Conditions to Avoid: Heat, sparks, flames. Do not expose to excessive heat, ignition sources, or

oxidizing materials.

Incompatible Materials: Strong oxidizing agents.



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Hazardous Decomposition

Products:

Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation: Harmful if inhaled.

Ingestion: No data available.

Skin Contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix > 10.000 mg/kg.

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: ATEmix (, 4 h): 2 - 5 mg/l. Dusts, mists and fumes

Skin Corrosion/Irritation:

Product: Causes skin irritation.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Causes serious eye irritation.

Respiratory sensitization:

No data available

Skin sensitization:

Petroleum naphtha Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer. 2-Ethylhexanol Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.

Mineral oil Classification: Not a skin sensitizer. (Read across)

Specific Target Organ Toxicity - Single Exposure:

Petroleum naphtha If material is misted or if vapors are generated from heating,

exposure may cause irritation of mucous membranes and the upper

respiratory tract.

2-Ethylhexanol Respiratory tract irritation.

Aspiration Hazard:

Petroleum naphtha Material can be aspirated into the lungs during the act of swallowing

or vomiting. This could result in severe injury to the lungs and death.

Mineral oil Material can be aspirated into the lungs during the act of swallowing

or vomiting. This could result in severe injury to the lungs and death.

Chronic Effects

Carcinogenicity:



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Product: Not available.

Mineral oil All of the oils in this product have been demonstrated to contain less

than 3% extractables by the IP 346 test. This product contains mineral oils which are severely refined and not considered

carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity:

2-Ethylhexanol This material has not exhibited mutagenic or genotoxic potential in

laboratory tests.

Petroleum naphtha In vitro and in vivo genetic toxicity studies were negative.

Reproductive toxicity:

2-Ethylhexanol No evidence of adverse effects were found in a developmental

toxicity study of 2-ethylhexanol in rats. Doses up to 3 ml/kg applied to the skin during the most critical part of the gestation period produced evidence of toxicity to mothers, but no evidence of injury in the developing offspring. In a previous study, birth defects were observed by oral administration, an unlikely route of exposure in the

workplace.

Specific Target Organ Toxicity - Repeated Exposure:

2-Ethylhexanol Repeated overexposure may result in liver and kidney damage. A

14-day dermal toxicity study of 2-ethylhexanol in rats showed blood effects, decreased spleen weight and decreased triglycerides. Unknown: Target Organ(s): Blood, Liver, Spleen., Kidney

12. Ecological information

Ecotoxicity

Fish

Petroleum naphtha LC 50 (Rainbow Trout, 4 d): > 1,000 mg/l

2-Ethylhexanol LC 50 (Fathead Minnow, 4 d): 28.2 mg/l

LC 50 (Golden Orfe, 4 d): 17.1 mg/l NOEC (Golden Orfe, 4 d): 14 mg/l

Aquatic Invertebrates

Petroleum naphtha EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l

2-Ethylhexanol EC 50 (Water flea (Daphnia magna), 2 d): 39 mg/l

Mineral oil EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l



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Toxicity to Aquatic Plants

Petroleum naphtha LC 50 (Green algae (Selenastrum capricornutum), 3 d): > 1,000 mg/l

EC 50 (Green algae (Selenastrum capricornutum), 3 d): > 1,000

mg/l

2-Ethylhexanol EC 50 (Green algae (Scenedesmus quadricauda), 3 d): 16.6 mg/l

Toxicity to soil dwelling organisms

No data available

Sediment Toxicity

No data available

Toxicity to Terrestrial Plants

No data available

Toxicity to Above-Ground Organisms

No data available

Toxicity to microorganisms

2-Ethylhexanol EC 50 (Pseudomonas putida, 0.1 d): 540 mg/l

EC 50 (Sludge, 0.5 d): > 100 mg/l

Persistence and Degradability

Biodegradation

Petroleum naphtha OECD TG 301 F, 80 %, 28 d, Readily biodegradable

2-Ethylhexanol OECD TG 302 B, 95 %, 5 d, Readily biodegradable

OECD TG 301 C, 100 %, 14 d, Readily biodegradable

Mineral oil OECD TG 301 F, 31 %, 28 d, Not readily degradable.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

2-Ethylhexanol Bioconcentration Factor (BCF): 25.35 (calculated)

Partition Coefficient n-octanol / water (log Kow)

2-Ethylhexanol Log Kow: 2.9 (Measured)

Mobility:

2-Ethylhexanol soil - 1.42

Other Adverse Effects: No data available.

13. Disposal considerations

Disposal instructions: Treatment, storage, transportation, and disposal must be in accordance

with applicable Federal, State/Provincial, and Local regulations.

Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product

residue which may exhibit hazards of product.

Contaminated Packaging: Container packaging may exhibit hazards.



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14. Transport information

DOT

UN Number: NA 1993

UN Proper Shipping Name: Combustible liquid, n.o.s.(Petroleum naphtha, 2-Ethylhexanol, 2-

Ethyl-4-methylpentanol)

Transport Hazard Class(es)

Class: CBL
Label(s): Packing Group: III
Marine Pollutant: No

Special precautions for user: None established

IMDG

Not regulated.

IATA

Not regulated.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities ,temperature of the material, package size, and/or origin and destination It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard Immediate

(Acute) Health Hazards

SARA 302 Extremely Hazardous Substance

SARA 304 Emergency Release Notification

SARA 311/312 Hazardous Chemical

SARA 313 (TRI Reporting)

This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA). For additional information please contact Lubrizol Customer Assistance: America(s): AmerLZAMCustomerAssistance@Lubrizol.com; Europe: EMEAlCustomerAssistance@Lubrizol.com; Asia: APCustomerAssistance@Lubrizol.com

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Propylene oxide 150.00PPM Ethylene oxide 15.00PPB Methanol 2.00PPB



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Inventory Status

Australia (AICS)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

China (IECSC)

This product may be imported to China only by Lubrizol China.

European Union (REACh)

To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH, or e-mail us at REACH_MSDS_INQUIRIES@Lubrizol.com

Japan (ENCS)

This product requires notification in Japan.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

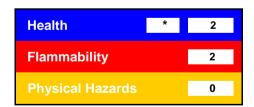
United States (TSCA)

All components of this material are on the US TSCA Inventory.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

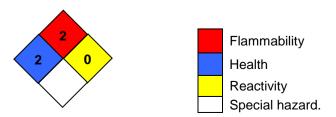
16.Other information, including date of preparation or last revision

HMIS Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible



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Issue Date: 05/01/2015

Version #: 1.0

Source of information: Internal company data and other publically available resources.

Further Information: Contact supplier (see Section 1)

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assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains

the responsibility of the user.