



SAFETY DATA SHEET

Date: June 2015

Section #1: PRODUCT AND COMPANY IDENTIFICATION

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Product Identification: Water Soluble Lubricant Series Number 4485
Product Name: Lubricant Formulation #METS-LUBE-WAT-XXXX

2. Hazards Identification

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2



GHS Signal Word:	Warning
GHS Hazard Phrases:	H315 - Causes skin irritation. H319 - Causes serious eye irritation.
GHS Precaution Phrases:	P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:	P302+352 - IF ON SKIN: Wash with plenty of soap and water. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment see ... on this label. P332+313 - If skin irritation occurs, get medical advice/attention. P337+313 - If eye irritation persists, get medical advice/attention. P362+364 - Take off contaminated clothing and wash it before reuse.
GHS Storage and Disposal Phrases:	No phrases apply.
Potential Health Effects (Acute and Chronic):	Chronic: None.
Inhalation:	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. No hazard expected in normal industrial use.
Skin Contact:	Causes skin irritation.
Eye Contact:	Skin Absorption: May be harmful if absorbed through the skin. Causes eye irritation.
Ingestion:	May be harmful if swallowed. No hazard expected in normal industrial use.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
107-41-5	2,4-Pentanediol, 2-Methyl-	40.0 -60.0 %	
7732-18-5	Water	40.0 -60.0 %	

4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

In Case of Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water. No specific treatment is necessary, since this material is not likely to be hazardous.

In Case of Eye Contact: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. No specific treatment is necessary, since this material is not likely to be hazardous.

In Case of Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician. No specific treatment is necessary, since this material is expected to be non-hazardous.

Signs and Symptoms Of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: 201.20 C Method Used: Estimate

Explosive Limits: LEL: UEL:

Autoignition Pt: 306.00 C

Suitable Extinguishing Media: Suitable: Water spray. Not available.

Fire Fighting Instructions: Specific Hazard(s): Material will not burn.

Flammable Properties and Hazards:

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Methods for cleaning up.
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete. Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:

7. Handling and Storage

Precautions To Be Taken in Handling: User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

SPECIAL REQUIREMENTS:

Store under inert gas. No special handling procedures are required.

Precautions To Be Taken in Storing: No special storage requirements.

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4485 Lubricant

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
107-41-5	2,4-Pentanediol, 2-Methyl-			
7732-18-5	Water			

Respiratory Equipment (Specify Type): Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles. Eye protection is not normally required.

Protective Gloves: Protective garments not normally required.

Other Protective Clothing: Protective garments not normally required.

Engineering Controls (Ventilation etc.): Mechanical exhaust required. Safety shower and eye bath. There are no special ventilation requirements.

Work/Hygienic/Maintenance Practices: Wash thoroughly after handling.

EXPOSURE LIMITS, RTECS.
Country Source Type Value.
USA ACGIH Ceiling co 25 PPM New Zealand OEL.
Remarks: CHECK ACGIH TLV.
USA NIOSH Ceiling co 25 PPM EXPOSURE LIMITS.
Poland NDSP -
Poland NDSCh -

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Solution.
sweetish odor.

Melting Point:

Boiling Point: 100.00 C

Flash Pt: 201.20 C Method Used: Estimate

Evaporation Rate:

Flammability (solid, gas):

Explosive Limits: LEL: UEL:

Vapor Pressure (vs. Air or mm Hg):

Vapor Density (vs. Air = 1):

Specific Gravity (Water = 1):

Density: ~ 0.922 G/CM3

Solubility in Water:

Percent Volatile:

Autoignition Pt: 306.00 C

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability:

Incompatibility - Materials To Avoid: Strong acids, Strong oxidizing agents, None.

Hazardous Decomposition or Byproducts: Carbon monoxide, None.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions:

11. Toxicological Information

Toxicological Information: Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:

Carcinogenicity/Other Information: CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

13. Disposal Considerations

Waste Disposal Method: APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION.
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.
Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:

DOT Hazard Class: 9 CLASS 9

UN/NA Number:

Packing Group: III

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: No information available.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
107-41-5	2,4-Pentanediol, 2-Methyl-	No	No	No
7732-18-5	Water	No	No	No

This material meets the EPA Yes No Acute (immediate) Health Hazard
 'Hazard Categories' defined Yes No Chronic (delayed) Health Hazard
 for SARA Title III Sections Yes No Fire Hazard
 311/312 as indicated: Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

16. Other Information

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