Safety Data Sheet

Klotz Synthetic Lubricants, Inc.

1. Product and Supplier Information

Product Name : Klotz 20W/50 V-Twin Techniplate KH-2050
Manufacturer: Klotz Synthetic Lubricants
Phone Number: 260.490.0489
Emergency Contact: 800.424.9300 Chemtrec

Address
Klotz Synthetic Lubricants, Inc.
7424 Freedom Way
Fort Wayne, IN 46818 USA

Recommended Use:
4 Stroke engines

Restrictions of use:
Not for use in any other engine than 4-stroke engines.

2. Hazard(s) Identification

Osha Hazard Classification: 29 CFR 1910.1200(g)(4)



3. Composition/Information on Ingredients

CAS #	SARA 313	dm	Material or Component	Range %	Exposure Limits ACGIH TWA	STEL
NA	No	NA	Synthetic Oil Base	100%	NE	NE

4. First Aid

Inhalation: Move yourself and/or individual into fresh non stagnant air. Seek medical attention if breathing becomes harder. Vapors from exhaust may irritate breathing passages.

Skin Contact: Wash all areas of contact with hand soap and water. Always wash hands exposed to prevent ingestion. Extended or repeated contact might irritate the skin.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids apart.

Ingestion: Seek immediate medical attention. Induce vomiting only as directed by physician. Drink water to dilute. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammability Summary(OSHA) No data on combinations. Component data given below.

	Flammable
Flammable Properties:	Product
Flash Point:	480°F (249°C)
Autoignition Temperature:	No Data
Upper Flammable/Explosive Limit, % in air:	No Data
Lower Flammable/Explosive Limit, % in air:	No Data

Conditions of flammability:

Flammable in the presence of a source of ignition and the liquid product is above the flash point. Keep away from high heat/ sparks/ open flame/ or hot surface.

Extinguishing Media:

Foam, Dry chemical or carbon dioxide

Fire Fighting Instructions:

In case of fire, call emergency services. Then use normal fire fighting equipment including a NIOSH approved self-contained breathing apparatus. Use water to cool containers.

6. Accidental Release Measures

Personal Protection for Emergency Situations:

Eliminate any ignition sources until the area is determined to be free from explosion and fire hazards.

Spill Mitigation Procedures

Air Release: NA

Water Release: This product is soluble in water. Contain all liquid for treatment and /or disposal as a hazardous waste. Notify all downstream users of possible contamination.

Land Release: Create a barrier to stop and prevent further spill on land. After spill is contained, then use material that is absorbent to soak up all product. All remaining, use a environmentally friendly cleaning soap to clean area.

Additional Spill Information: Stop all contamination as soon as possible and notify appropriate personnel. Use the dispose of spill residues per guidelines Section 13, Disposal Considerations.

7. Handling and Storage

Handling: Be careful when handling to not expose skin, eyes, or mouth to the product.

Storage: Keep in cool dry location with the container sealed with cap.

Shelf Life Limitations: If product is in the original container with cap sealed away from the oxygen, this product as an indefinite shelf life.

Incompatible Materials for Storage: None

8. Exposure Controls and Personal Protection

CAS #	Material or Component	Parameter	Value	Source
8012-95-1	Oil Mist, mineral	TWA	5 mg/m	OSHA 1910.100 Table Z-1

Protective Equipment for Routine Use of Product

Skin: Wear impervious gloves to avoid skin contact when handling. Follow good hygiene practices

Eyes: Always wear protection over your eyes when handling product.

Protective Clothing Type: Impervious

Other: Safety shower and eye bath should at all times be available.

9. Physical Data

Boiling Point: 750°F (398.9°C)
Freezing Point: N/A
Melting Point: N/A
Vapor Pressure (mmHg): <0.1 @ 100°F
Solubility in Water: Negligible
Evaporation Rate(Water=1): Very slow
Odor: Sweet

Specific Gravity: 0.886
% Volatile By Vol.: 0 @ 100°F
Viscosity (cSt @ 100 C): 19.10
Vapor Density (Air=1): Heavier
Bulk Density :N/A
Pour Point: -30°F
Appearance: Red

10. Stability and Reactivity

Chemical Stability:

Stable under normal conditions

Reactive Properties:

Sensitivity to mechanical shock: None
Hazardous Polymerization: Will not occur
Conditions to avoid: heat/sparks/flame
Chemical Incompatibility: None
Incompatible material: None
Decomposition Temperature: None
Product may be unstable at: Temperatures higher than operating temperature.

11. Toxicological Information

Component Animal Toxicology	Lubricant
Oral LD50 Value:	>2000mg/kg
Dermal LD50 Value:	No Data
Inhalation LC50 Value:	>30000 mg/kg

Eye Irritation: This material is expected to be severely irritating

12. Ecological Information

Lubricant

Ecotoxicity

Acute and Prolonged toxicity to Fish-

Rainbow trout/ LC50 (96 h): > 100 mg/l

Toxicity to Microorganisms: N/A

Not a marine pollutant

Environmental Fate:

Test method: OECD Guideline 301F

Method of Analysis: BOD of the ThOD

Degree of Elimination: >60 % (28 d)

Evaluation: Readily Biodegradable

13. Disposal Considerations

Waste Disposal Summary:

Product as supplied qualifies as "Unlisted Hazardous Waste D001" with the Characteristic of Ignitability

Disposal Methods:

Dispose of in accordance with local, state, and federal regulations for hazardous waste.

Components subject to land ban restrictions:

No Components subject to land ban restrictions

14.1 Transportation Information

DOT Information: Non-Regulated

TDG Information: Non-Dangerous

15. Regulatory Information

Miscellaneous Information: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA) and the Canadian Domestic Substance List (DSL).

16. Other Information

Date of Preparation	Reason for Issue	Prepared By
Original date: 11/19/2015	Generation 1	Klotz Synthetic Lubricants, Inc.
Revised date: 05/08/2017	Color format	
Revised date: 6/19/2019	Pictogram	

Safety Data Sheet

Klotz Synthetic Lubricants, Inc.

1. Product and Supplier Information

Product Name : Klotz V Twin Lubricant KH-C80
Manufacturer: Klotz Synthetic Lubricants
Phone Number: 260.490.0489
Emergency Contact: 800.424.9300 Chemtrec

Address
Klotz Synthetic Lubricants, Inc.
7424 Freedom Way
Fort Wayne, IN 46818 USA

Recommended Use:
Primary Case Lubricant

Restrictions of use:
Only in a Primary Chain Case or gear box.

2. Hazard(s) Identification

Osha Hazard Classification: 29 CFR 1910.1200(g)(4)



3. Composition/Information on Ingredients

CAS #	SARA 313	dm	Material or Component	Range %	Exposure Limits ACGIH TWA	STEL
NA	No	NA	Synthetic Oil Base	100%	NE	NE

4. First Aid

Inhalation: Move yourself and/or individual into fresh non stagnant air. Seek medical attention if breathing becomes harder. Vapors from exhaust may irritate breathing passages.

Skin Contact: Wash all areas of contact with hand soap and water. Always wash hands exposed to prevent ingestion. Extended or repeated contact might irritate the skin.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids apart.

Ingestion: Seek immediate medical attention. Induce vomiting only as directed by physician. Drink water to dilute. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammability Summary(OSHA) No data on combinations. Component data given below.

Flammable

Flammable Properties:	Product
Flash Point:	400°F (204°C)
Autoignition Temperature:	No Data
Upper Flammable/Explosive Limit, % in air:	No Data
Lower Flammable/Explosive Limit, % in air:	No Data

Conditions of flammability:

Flammable in the presence of a source of ignition and the liquid product is above the flash point. Keep away from high heat/ sparks/ open flame/ or hot surface.

Extinguishing Media:

Foam, Dry chemical or carbon dioxide

Fire Fighting Instructions:

In case of fire, call emergency services. Then use normal fire fighting equipment including a NIOSH approved self-contained breathing apparatus. Use water to cool containers.

6. Accidental Release Measures

Personal Protection for Emergency Situations:

Eliminate any ignition sources until the area is determined to be free from explosion and fire hazards.

Spill Mitigation Procedures

Air Release: NA

Water Release: This product is soluble in water. Contain all liquid for treatment and /or disposal as a hazardous waste. Notify all downstream users of possible contamination.

Land Release: Create a barrier to stop and prevent further spill on land. After spill is contained, then use material that is absorbent to soak up all product. All remaining, use an environmentally friendly cleaning soap to clean area.

Additional Spill Information: Stop all contamination as soon as possible and notify appropriate personnel. Use the dispose of spill residues per guidelines Section 13, Disposal Considerations.

7. Handling and Storage

Handling: Be careful when handling to not expose skin, eyes, or mouth to the product.

Storage: Keep in cool dry location with the container sealed with cap.

Shelf Life Limitations: If product is in the original container with cap sealed away from the oxygen, this product as an indefinite shelf life.

Incompatible Materials for Storage: None

8. Exposure Controls and Personal Protection

CAS #	Material or Component	Parameter	Value	Source
8012-95-1	Oil Mist, mineral	TWA	5 mg/m	OSHA 1910.100 Table Z-1

Protective Equipment for Routine Use of Product

Skin: Wear impervious gloves to avoid skin contact when handling. Follow good hygiene practices

Eyes: Always wear protection over your eyes when handling product.

Protective Clothing Type: Impervious

Other: Safety shower and eye bath should at all times be available.

9. Physical Data

Boiling Point: N/A
Freezing Point: N/A
Melting Point: N/A
Vapor Pressure (mmHg): <1.0 @ 100°F
Solubility in Water: Slightly Soluble
Evaporation Rate(Water=1): >1
Odor: Sweet

Specific Gravity: 0.877
% Volatile By Vol.:<0.1% @ 100°F
Viscosity (cSt @ 100 C): 15.2
Vapor Density (Air=1): Heavier
Bulk Density :
Pour Point: -30°F
Appearance: Red

10. Stability and Reactivity

Chemical Stability:

Stable under normal conditions

Reactive Properties:

Sensitivity to mechanical shock: None
Hazardous Polymerization: Will not occur.
Conditions to avoid: heat/sparks/flame
Chemical Incompatibility: None
Incompatible material: None
Decomposition Temperature: None
Product may be unstable at: Temperatures higher than operating temperature.

11. Toxicological Information

Component Animal Toxicology	Lubricant
Oral LD50 Value:	>2000mg/kg
Dermal LD50 Value:	No Data
Inhalation LC50 Value:	>30000 mg/kg

Eye Irritation: This material is expected to be severely irritating

12. Ecological Information

Lubricant

Ecotoxicity

Acute and Prolonged toxicity to Fish-

Rainbow trout/ LC50 (96 h): > 100 mg/l

Toxicity to Microorganisms: N/A

Not a marine pollutant

Environmental Fate:

Test method: OECD Guideline 301F

Method of Analysis: BOD of the ThOD

Degree of Elimination: >60 % (28 d)

Evaluation: Readily Biodegradable

13. Disposal Considerations

Waste Disposal Summary:

Product as supplied qualifies as "Unlisted Hazardous Waste D001" with the Characteristic of Ignitability

Disposal Methods:

Dispose of in accordance with local, state, and federal regulations for hazardous waste.

Components subject to land ban restrictions:

No Components subject to land ban restrictions

14.1 Transportation Information

DOT Information: Non-Regulated

TDG Information: Non-Dangerous

15. Regulatory Information

Miscellaneous Information: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA) and the Canadian Domestic Substance List (DSL).

16. Other Information

Date of Preparation	Reason for Issue	Prepared By
Original date: 11/19/2015	Generation 1	Klotz Synthetic Lubricants, Inc.
Revised date: 05/08/2017	Color format	
Revised date: 06/07/2019	Pictogram	

Safety Data Sheet

Klotz Synthetic Lubricants, Inc.

1. Product and Supplier Information

Product Name : Klotz SAE 80W/90 Transmission Lubricant KH-GL90
Manufacturer: Klotz Synthetic Lubricants
Phone Number: 260.490.0489
Emergency Contact: 800.424.9300 Chemtrec

Address
Klotz Synthetic Lubricants, Inc.
7424 Freedom Way
Fort Wayne, IN 46818 USA

Recommended Use:
Hypoid Gear Cases and transmission.

Restrictions of use:
Not for use with wet Clutch

2. Hazard(s) Identification

Osha Hazard Classification: 29 CFR 1910.1200(g)(4)



3. Composition/Information on Ingredients

CAS #	SARA 313	dm	Material or Component	Range %	Exposure Limits ACGIH TWA	STEL
NA	No	NA	Synthetic Oil Base	100%	NE	NE

4. First Aid

Inhalation: Move yourself and/or individual into fresh non stagnant air. Seek medical attention if breathing becomes harder. Vapors from exhaust may irritate breathing passages.

Skin Contact: Wash all areas of contact with hand soap and water. Always wash hands exposed to prevent ingestion. Extended or repeated contact might irritate the skin.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids apart.

Ingestion: Seek immediate medical attention. Induce vomiting only as directed by physician. Drink water to dilute. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammability Summary(OSHA) No data on combinations. Component data given below.

	Flammable
Flammable Properties:	Product
Flash Point:	460°F (238°C)
Auto ignition Temperature:	No Data
Upper Flammable/Explosive Limit, % in air:	No Data
Lower Flammable/Explosive Limit, % in air:	No Data

Conditions of flammability:

Flammable in the presence of a source of ignition and the liquid product is above the flash point.
Keep away from high heat/ sparks/ open flame/ or hot surface.

Extinguishing Media:

Foam, Dry chemical or carbon dioxide

Fire Fighting Instructions:

In case of fire, call emergency services. Then use normal fire fighting equipment including a NIOSH approved self-contained breathing apparatus. Use water to cool containers.

6. Accidental Release Measures

Personal Protection for Emergency Situations:

Eliminate any ignition sources until the area is determined to be free from explosion and fire hazards.

Spill Mitigation Procedures

Air Release: NA

Water Release: This product is soluble in water. Contain all liquid for treatment and /or disposal as a hazardous waste. Notify all downstream users of possible contamination.

Land Release: Create a barrier to stop and prevent further spill on land. After spill is contained, then use material that is absorbent to soak up all product. All remaining, use an environmentally friendly cleaning soap to clean area.

Additional Spill Information: Stop all contamination as soon as possible and notify appropriate personnel. Use the dispose of spill residues per guidelines Section 13, Disposal Considerations.

7. Handling and Storage

Handling: Be careful when handling to not expose skin, eyes, or mouth to the product.

Storage: Keep in cool dry location with the container sealed with cap.

Shelf Life Limitations: If product is in the original container with cap sealed away from the oxygen, this product as an indefinite shelf life.

Incompatible Materials for Storage: None

8. Exposure Controls and Personal Protection

CAS #	Material or Component	Parameter	Value	Source
8012-95-1	Oil Mist, mineral	TWA	5 mg/m	OSHA 1910.100 Table Z-1

Protective Equipment for Routine Use of Product

Skin: Wear impervious gloves to avoid skin contact when handling. Follow good hygiene practices

Eyes: Always wear protection over your eyes when handling product.

Protective Clothing Type: Impervious

Other: Safety shower and eye bath should at all times be available.

9. Physical Data

Boiling Point: 350°F (177°C)
Freezing Point: N/A
Melting Point: N/A
Vapor Pressure (mmHg): <0.1 @ 100°F
Solubility in Water: Negligible
Evaporation Rate(Water=1): Very Slow (> - 1)
Odor: Strong oil smell
Specific Gravity: 0.891
% Volatile By Vol.: 0 @ 100°F
Viscosity (cSt @ 100 C): 16.00
Vapor Density (Air=1): Heavier
Bulk Density :N/A
Pour Point: -18°F (-27°C)
Appearance: Red

10. Stability and Reactivity

Chemical Stability:

Stable under normal conditions

Reactive Properties:

Sensitivity to mechanical shock: None
Hazardous Polymerization: Will not occur.
Conditions to avoid: heat/sparks/flame
Chemical Incompatibility: None
Incompatible material: None
Decomposition Temperature: None
Product may be unstable at: Temperatures higher than operating temperature.

11. Toxicological Information

Component Animal Toxicology	Lubricant
Oral LD50 Value:	>2000mg/kg
Dermal LD50 Value:	No Data
Inhalation LC50 Value:	>30000 mg/kg

Eye Irritation: This material is expected to be severely irritating

12. Ecological Information

Lubricant

Ecotoxicity

Acute and Prolonged toxicity to Fish-

Rainbow trout/ LC50 (96 h): > 100 mg/l

Toxicity to Microorganisms: N/A

Not a marine pollutant

Environmental Fate:

Test method: OECD Guideline 301F

Method of Analysis: BOD of the ThOD

Degree of Elimination: >60 % (28 d)

Evaluation: Readily Biodegradable

13. Disposal Considerations

Waste Disposal Summary:

Product as supplied qualifies as "Unlisted Hazardous Waste D001" with the Characteristic of Ignitability

Disposal Methods:

Dispose of in accordance with local, state, and federal regulations for hazardous waste.

Components subject to land ban restrictions:

No Components subject to land ban restrictions

14.1 Transportation Information

DOT Information: Non-Regulated

TDG Information: Non-Dangerous

15. Regulatory Information

Miscellaneous Information: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA) and the Canadian Domestic Substance List (DSL).

16. Other Information

Date of Preparation	Reason for Issue	Prepared By
Original date: 11/19/2015	Generation 1	Klotz Synthetic Lubricants, Inc.
Revised date: 05/08/2017	Color format	
Revised date: 04/08/2019	Pictogram	