SAFETY DATA SHEETS

This SDS packet was issued with item:

071030717

N/A

Inhalation:

Patterson Dental Supply Product Code: 030725,71030717 SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION MSDS Name: W & H Service Oil Manufacturer Name: Kluber Lubrication Munchen KG Address: GeisenhausenerstraBe 7 D-81379 Munchen Emergency telephone no.: ++49-89-7876-0 Business Phone: ++49-89-7876-0 telephone exchange Business Fax: ++49-89-7876-333 For information in North America, call: ++49-89-7876-0 telephone exchange Manufacturer MSDS Revision Date: 29.8.1997 Safety Data Sheet conformable to EC directive 91/155 EEC Product Codes: 028073 ******************** SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS **************** Composition/Information: Chemical characterization: (preparation) synthetic hydrocarbon oil, ester oil Additional information: None ****************** SECTION 3 : HAZARDS IDENTIFICATION ***************** No particular hazards known. ****************** SECTION 4 : FIRST AID MEASURES ****************** Eye Contact: Rinse with plenty of water. Skin Contact: Wash off with soap and plenty of water.

Not applicable Ingestion: Do not induce vomiting. Obtain medical attention. Note to Physicians: Treat symptomatically. If swallowed or in the event of vomiting, risk of product entering the lungs. ************** SECTION 5 : FIRE FIGHTING MEASURES ************** Fire: Advice on protection against fire and explosion: No special precautions required. Flash Point: Approx. 200 deg C Flash Point Method: **DIN ISO 2592** Upper Flammable or Explosive Limit: Not applicable Lower Flammable or Explosive Limit: Not applicable Auto Ignition Temperature: Not applicable deg C; Not applicable deg F Extinguishing Media: Water spray, foam, dry powder, carbon dioxide (CO2) Unsuitable Media: High volume water jet Fire Fighting Equipment: Standard procedure for chemical fires. Additional Information: Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes. Special hazards: In case of fire the following can be released: Carbon monoxide, hydrocarbons ************************* SECTION 6 : ACCIDENTAL RELEASE MEASURES ****************** Personal Precautions: Risk of slipping due to leakage/spillage of product. Spill Cleanup Measures: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations. Environmental Precautions: Do not flush into surface water or sanitary sewer system. Additional information: None ******************* SECTION 7 : HANDLING and STORAGE ******************

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Handling: Advice on safe handling: Avoid formation of aerosol. Storage: Requirements on storage rooms and vessels: No special storage conditions required Incompatible materials: Incompatible with oxidizing agents. Further information on storage conditions: Store at room temperature in the original container. Advice on protection against fire and explosion: No special precautions required. SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION ************ Hand Protection Description: No special protective equipment required. Eye/Face Protection: No special protective equipment required. Protective Clothing/Body Protection: No special protective equipment required. Respiratory Protection: No special protective equipment required. Other Protective: No special protective equipment required. Additional advice on system design: not applicable Ingredients and specific control parameters: None General protection and hygiene measures: Clean skin thoroughly after work; apply skin cream. Do not inhale aerosol. ************* SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES **************** Physical State/Appearance: Liquid Color: Colourless Odor: Mint-like Vapor Pressure: First: Not applicable Solubility: Water solubility: Insoluble Density: Approx 0.84 g/cm3, 20 deg C

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Test Method: DIN 51757 Viscosity: Kinematic: approx. 15 mm2/s, 40 deq C Test Method: DIN 51562 Pour Point: Test method: DIN ISO 3016 Flashpoint: Approx. 200 deg C Auto Ignition Temp: Not applicable deg C; Not applicable deg F Upper Flammable Explosive Limit: Not applicable Lower Flammable Explosive Limit: Not applicable Flash point: approx. 200 deg C Test method: DIN ISO 2592 Ignition temperature: Not applicable deg C; Not applicable F Explosive properties: Lower explosion limit: Not applicable Upper explosion limit: Not applicable Further information: None SECTION 10 : STABILITY AND REACTIVITY ********** Conditions to Avoid: Do not heat above flash point. Incompatibilities with Other Materials: Materials to avoid: strong oxidizing agents Hazardous Decomposition Products: None under normal use. Additional information: None ****************** SECTION 11 : TOXICOLOGICAL INFORMATION ****************** Applies to All Ingredients: Ingestion Effects: LD50/oral/rat = > 2 g/kg (literature data) Chronic Effects: None Other Toxicological Information: Human experience: Health injuries are not known or expected under normal use. Toxicological Paragraph: The toxicological data has been taken from products of similar composition.

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SECTION 12 : ECOLOGICAL INFORMATION *********** Ecotoxicity: The product has not been tested. Effect of Material On Aquatic Life: Aquatic toxicity is unlikely due to low solubility. Information on elimination (persistence and degradability): Product is insoluble in water. May be separated out mechanically in purification plants. Behavour in environmental compartments: Ecological injuries are not known or expected under normal use. Additional information: Should not be released into the environment. SECTION 13 : DISPOSAL CONSIDERATIONS ***************** Waste Disposal: Dispose of in accordance with your local, state and federal regulations as used oil for reconditioning. Dispose of contaminated packaging and recommended cleaning: Offer rinsed packaging material to local recycling facilities. ******************** SECTION 14 : TRANSPORT INFORMATION IATA: IATA-DGR: not applicable Maritime Transportation CGVS/GGVE/IMDG: Code: not applicable Land transport: GGVS/GGVE: not applicable Inland waterways transport: ADN/ADNR: not applicable Air transport: ICAO: not applicable Further information: Not classified as dangerous in the meaning of transport regulations. ******************** SECTION 15 : REGULATORY INFORMATION ***************

Applies to all ingredients: European Community Chemical Inventory Status: Conformable to EC directive 91/155 EEC

Labelling according to EU-guidelines: The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

All components are accepted by LMBG (Germany) and/or FDA (USA).

MSDS Revision Date:

29.8.1997

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid if the material is used in combination with any other materials or if it is processed, unless specified in the text.

Issue-department of safety Data Sheet: Chemical Documentation. Tel.: +19-89-7876-564



SAFETY DATA SHEET

Issue Date 27-Jan-2015 Revision Date 27-Jan-2015 Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name W & H Serviceoil F1 MD 200

Other means of identification

Product code: 028114 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Klüber Lubrication NA, LP 32 Industrial Drive Londonderry, NH 03053 Phone: (603) 647-4104

Fax: (603) 647-4106

Emergency telephone number

Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Oil Physical state Liquid Odor Mild

Hazards not otherwise classified (HNOC)

Other information

Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

18.695% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components	CAS-No	Weight %	Trade Secret
2,6-Di-t-butyl-4-methylphenol (BHT)	128-37-0	< 0.25	*

4. FIRST AID MEASURES

First aid measures

Eye contact: Flush eye with water for 15 minutes. If symptoms persist, call a physician.

Skin contact: Rinse with plenty of water. If skin irritation persists, call a physician.

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

If symptoms persist, call a physician.

Ingestion: Do not induce vomiting. Consult a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Carbon dioxide (CO2). Dry chemical. Dry sand. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. Water may be used to cool closed containers.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and

clothing. Wear personal protective equipment.

Environmental precautions

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering

drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with oil absorbent material. Pick up and transfer to properly labelled containers.

Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Do not breathe vapors or spray mist. Avoid contact with eyes and skin. Do not eat, drink or

smoke when using this product. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store in original container. Keep tightly closed in a dry and cool place. Keep in properly **Storage Conditions**

labelled containers. Keep away from direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

exposure:

Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may **Exposure Guidelines**

generate mists, observe the OSHA PEL of 5 mg/m³, ACGIH STEL of 10 mg/m³.

Components	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	2 mg/m ³ (Inhalable fraction	(vacated) TWA: 10 mg/m ³	
	and vapor)		

Appropriate engineering controls

Engineering measures to reduce

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Gloves made of plastic or rubber Hand protection: Safety glasses with side-shields Eye protection:

Usual safety precautions while handling the product will provide adequate protection Skin and body protection:

against this potential effect

General Hygiene Considerations Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Color Yellow Odor thresholdNo information Appearance Oil Odor Mild available

Property Values Remarks • Method Not applicable Boiling point / No information Melting No information point/freezing available boiling range available

point

Flash point > 200 °C / > Cleveland Open Cup No information Evaporation 392 °F available

rate No information **Flammability**

Flammability (solid, gas) available Limit in Air

Upper No information Lower No information flammability available flammability available limit:

limit:

Vapor < 0.001 hPa. Vapor density No information pressure 20°C available

> Water Insoluble in

Specific 0.84 Gravity solubility water No information No information Solubility in Partition available coefficient

other solvents available No information **Decomposition**No information Autoignition available available temperature temperature

Kinematic25 mm2/s @DynamicNo informationviscosity40 °Cviscosityavailable

Explosive properties No information available Oxidizing properties No information available

Other information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Reactivity
Not applicable

Chemical stability

Stability Stable under normal conditions

Possibility of Hazardous Reactions

Possibility of Hazardous

Reactions

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid No special storage conditions required

Hazardous Decomposition Products

Hazardous Decomposition

Products

Incompatible materials

None under normal processing

None under normal processing.

Incompatible materials Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Eye contact May cause slight irritation.

Skin contact Prolonged contact may cause redness and irritation.

Inhalation Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to

eyes and respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	= 2,930 mg/kg (Rat)	> 2,000 mg/kg (Rat)	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No sensitization responses were observed.

Mutagenic effects: Did not show mutagenic or teratogenic effects in animal experiments.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components 2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0

ACGIH	-
IARC:	Group 3
NTP Report on Carcinogens List -	•
OSHA	-

Reproductive toxicityThis product does not contain any known or suspected reproductive hazards.

STOT - Single ExposureNone under normal use conditions. **STOT - Repeated Exposure**None under normal use conditions.

Aspiration hazard Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 18.695% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 5052 mg/kg
ATEmix (dermal) 5052 mg/kg
ATEmix (inhalation-dust/mist) 5.4 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

0.625% of the mixture consists of components(s) of unknown hazards to the aquatic environment

2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0		
Algae/aquatic plants	6: 72 h Pseudokirchneriella subcapitata mg/l	LEC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50
Fish	0.46	64 mg/l, 96 h, Fish
Crustacea	0.386 mg/	I, 48 h, Daphnia magna

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

Components	Partition coefficient
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	4.17

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not Regulated

IATA-DGR Not Regulated

IMO / IMDG Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed in TSCA
DSL: Not listed in DSL

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden release of pressure hazardNoReactive HazardNo

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	Substance no. 0814 Listed.	Listed.	Listed.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Nfpa:

Health: 1 Flammability: 1 Instability 0

NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *

HMIS health rating:

Health: 1 Flammability: 1 Physical hazards 0 Personal protection B

Issue Date27-Jan-2015Revision Date27-Jan-2015

Revision Note Not applicable Disclaimer

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End of Safety Data Sheet



SAFETY DATA SHEET

Issue Date 27-Jan-2015 Revision Date 27-Jan-2015 Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name W & H Service Oil F1 MD 500

Other means of identification

Product code: 028073 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Klüber Lubrication NA, LP 32 Industrial Drive Londonderry, NH 03053 Phone: (603) 647-4104 Fax: (603) 647-4106

Emergency telephone number

Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Oil Physical state Liquid Odor Mild

Hazards not otherwise classified (HNOC)

Other information

Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

23.1% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components	CAS-No	Weight %	Trade Secret
1-Decene, dimer, hydrogenated	68649-11-6	1-10	*
2,6-Di-t-butyl-4-methylphenol (BHT)	128-37-0	< 0.25	*

4. FIRST AID MEASURES

First aid measures

Eye contact: Flush eye with water for 15 minutes. If symptoms persist, call a physician.

Skin contact: Rinse with plenty of water. If skin irritation persists, call a physician.

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

If symptoms persist, call a physician.

Ingestion: Do not induce vomiting. Consult a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Carbon dioxide (CO2). Dry chemical. Dry sand. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. Water may be used to cool closed containers.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and

clothing. Wear personal protective equipment.

Environmental precautions

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering

drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up:Soak up with oil absorbent material. Pick up and transfer to properly labelled containers.

Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe vapors or spray mist. Avoid contact with eves and skin. Do not eat, drink or Handling

smoke when using this product. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store in original container. Keep tightly closed in a dry and cool place. Keep in properly **Storage Conditions**

labelled containers. Keep away from direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may **Exposure Guidelines**

generate mists, observe the OSHA PEL of 5 mg/m³, ACGIH STEL of 10 mg/m³.

No information

ACGIH TLV OSHA (TWA mg/m³): IDLH: Components 2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0 2 mg/m ³ (Inhalable fraction (vacated) TWA: 10 mg/m³ and vapor)

Appropriate engineering controls

Engineering measures to reduce

Ensure adequate ventilation, especially in confined areas.

exposure:

Individual protection measures, such as personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: Gloves made of plastic or rubber Safety glasses with side-shields Eye protection:

Usual safety precautions while handling the product will provide adequate protection Skin and body protection:

against this potential effect

General Hygiene Considerations Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Oil Odor Mild Color Yellow Odor thresholdNo information

Evaporation

available

Remarks • Method Not applicable **Property** Values pН Boiling point / No information Melting No information boiling range available point/freezing available

point

Flash point

> 200 °C / > ISO 2592

392 °F available rate **Flammability** No information **Flammability**

(solid, gas) available Limit in Air No information No information Upper Lower flammability available flammability available

limit: limit:

Vapor < 0.17 hPa, Vapor density No information available pressure 20°C 0.84 Insoluble in Specific Water

Gravity solubility water

No information Solubility in No information Partition other solvents available available coefficient

Autoignition
temperatureNo information
availableDecomposition No information
temperatureAvailableKinematic
viscosity22 mm2/s @Dynamic
viscosityNo information
viscosity

Explosive propertiesOxidizing properties
No information available
No information available

Other information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Reactivity
Not applicable

Chemical stability

Stability Stable under normal conditions

Possibility of Hazardous Reactions

Possibility of Hazardous

Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid No special storage conditions required

Hazardous Decomposition Products

Hazardous Decomposition

Products

Incompatible materials

None under normal processing

Incompatible materials Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Eye contact May cause slight irritation.

Skin contact Prolonged contact may cause redness and irritation.

Inhalation Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to

eyes and respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
1-Decene, dimer, hydrogenated - 68649-11-6	> 5,000 mg/kg (Rat)	> 3,000 mg/kg (Rabbit)	1.17 mg/l, 4 h (Rat) dust/mist
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	= 2,930 mg/kg (Rat)	> 2,000 mg/kg (Rat)	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No sensitization responses were observed.

Mutagenic effects: Did not show mutagenic or teratogenic effects in animal experiments.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0
ACGIH	•
IARC:	Group 3
NTP Report on Carcinogens List -	•
OSHA	-

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards.

STOT - Single ExposureSTOT - Repeated Exposure
None under normal use conditions.
None under normal use conditions.

Aspiration hazard Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 23.1% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5052 mg/kg ATEmix (dermal) 5052 mg/kg ATEmix (inhalation-dust/mist) 5.4 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

0.625% of the mixture consists of components(s) of unknown hazards to the aquatic environment

1-Decene, dimer, hydrogenated - 68649-11-6		
Algae/aquatic plants	> 1,000 mg/l, 72 h, Scenedesmus capricornutum	
Fish	> 1,000 mg/l, 96 h, Oncorhynchus mykiss	
Crustacea	> 1,000 mg/l, 48 h, Daphnia magna	
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0		
Algae/aquatic plants	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50	
Fish	0.464 mg/l, 96 h, Fish	
Crustacea	0.386 mg/l, 48 h, Daphnia magna	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

Components	Partition coefficient
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	4.17

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not Regulated

IMO / IMDG Not Regulated

Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed in TSCA

DSL: All of the components in this product are listed in DSL

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	Substance no. 0814 Listed.	Listed.	Listed.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Nfpa: Health: 1 Flammability: 1 Instability 0

NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *

HMIS health rating:

Health: 1 Flammability: 1 Physical hazards 0 Personal protection B

 Issue Date
 27-Jan-2015

 Revision Date
 27-Jan-2015

Revision Note Not applicable Disclaimer

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End of Safety Data Sheet