



**SAFETY DATA SHEET**  
According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 088989

**KLEENOIL 220**

Date of the previous version: not applicable

Revision Date: 2018-09-12

Version 1

**1. IDENTIFICATION****Product identifier**

Product name KLEENOIL 220

**Other means of identification**

Product Code(s) 088989

Number T8T  
Substance/mixture Mixture**Recommended use of the chemical and restrictions on use**

Identified uses synthetic. Lubricant. Oil.

Uses advised against Do not use for any purpose other than the one for which it is intended

**Details of the supplier of the safety data sheet**Supplier Address TOTAL Specialties USA, Inc.  
1201 Louisiana St. Suite 1800  
Houston, TX 77002  
Phone: 713-483-5000

Contact Point Technical/ HSEQ

E-mail Address ProductSafety@total.com

**Emergency telephone number**Emergency telephone +1 866 928 0789 (24h/24, 7d/7)  
+1 215 207 0061 (24h/24, 7d/7)**2. HAZARDS IDENTIFICATION****Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label elements**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Version GNAM



SDS # : 088989

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Version 1

**Hazards not otherwise classified (HNOC)**

None known

**Other information****Environmental properties**

Should not be released into the environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**4. FIRST AID MEASURES****First aid measures for different exposure routes**

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors.
<b>Ingestion</b>	If swallowed. Rinse mouth. Do NOT induce vomiting.

**Most important symptoms/effects, acute and delayed**

<b>Skin contact</b>	Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<b>Eye contact</b>	Not classified based on available data.
<b>Inhalation</b>	Not classified based on available data.
<b>Ingestion</b>	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching.

Version GNAM



SDS # : 088989

**KLEENOIL 220**

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Version 1

**Indication of immediate medical attention and special treatment needed, if necessary**

Notes to physician Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media** Foam. Carbon dioxide (CO<sub>2</sub>). ABC powder. Water spray or fog.**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.**Special Hazard** Thermal decomposition can lead to release of irritating and toxic gases and vapors. Sulfur oxides. Phosphorous oxides. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.**Explosion Data****Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition.**Other information** See Section 12 for additional information.**Environmental precautions****General Information** Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information.**Methods and material for containment and cleaning up****Methods for cleaning up** Dam up. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use mechanical means such as pumps and absorbent materials.**7. HANDLING AND STORAGE****Precautions for safe handling**

Version GNAM



SDS # : 088989

## KLEENOIL 220

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Version 1

**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep away from food, drink and animal feedingstuffs. Keep in a banded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Keep in properly labeled containers. Keep away from open flames, hot surfaces and sources of ignition.

**Materials to Avoid** Strong oxidizing agents.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Control parameters

**Exposure limits** Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

### Exposure controls

**Engineering Measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### Individual protection measures, such as personal protective equipment

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Eye/face protection** If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Protective shoes or boots.

**Hand Protection** Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the

Version GNAM



SDS # : 088989

**KLEENOIL 220**

Date of the previous version: not applicable

Revision Date: 2018-09-12

Version 1

supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and chemical properties**

Appearance		limpid	
Color		green	
Physical State @20°C		liquid	
Odor		Faint	
Odor Threshold		No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range		No information available	
Flash point	> 204 °C		Cleveland Open Cup (COC)
	> 399 °F		ASTM D 92
			Cleveland Open Cup (COC).
			ASTM D 92.
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper	-	No information available	
Lower	-	No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	< 1	@ 25 °C	ASTM D 1298
Density	< 1000 kg/m <sup>3</sup>	@ 25 °C	ASTM D 1298
Water solubility		Insoluble	
Solubility in other solvents		Soluble in many common organic solvents	
logPow		No information available	
Autoignition temperature		Not applicable	

Version GNAM



SDS # : 088989

**KLEENOIL 220**

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Revision Date: 2018-09-12

Version 1

<b>Decomposition temperature</b>		No information available	
<b>Viscosity, kinematic</b>	> 198 mm <sup>2</sup> /s	@ 40 °C	ASTM D 445
<b>Explosive properties</b>	Not explosive		
<b>Oxidizing Properties</b>	Not applicable		
<b>Possibility of hazardous reactions</b>	Not applicable		
<b>Other information</b>			
<b>Specific Gravity</b>	< 1	@ 25 °C	
<b>Freezing Point</b>		No information available	

**10. STABILITY AND REACTIVITY**

<b><u>Reactivity</u></b>	No information available.
<b><u>Chemical stability</u></b>	Stable under recommended storage conditions.
<b><u>Possibility of hazardous reactions</u></b>	None under normal processing.
<b><u>Conditions to avoid</u></b>	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Take precautionary measures against static discharges.
<b><u>Incompatible materials</u></b>	Strong oxidizing agents.
<b><u>Hazardous Decomposition Products</u></b>	None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Principle Routes of Exposure</b>	Inhalation, Ingestion, Eye contact, Skin contact.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching.
<b>Skin contact</b>	Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<b>Eye contact</b>	Not classified based on available data.
<b>Inhalation</b>	Not classified based on available data.
<b>Ingestion</b>	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Version GNAM



SDS # : 088989

**KLEENOIL 220**

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Version 1

**Acute toxicity - Product Information**

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

**Oral** Not classified based on available data

**Dermal** Not classified based on available data

**Inhalation** Not classified based on available data

**Acute toxicity - Component Information**

No information available

**Skin corrosion/irritation** Not classified based on available data.

**Serious eye damage/eye irritation** Not classified based on available data.

**Sensitization** Not classified based on available data.

**Carcinogenicity** Not classified based on available data.

**Mutagenicity** Not classified based on available data.

**Germ Cell Mutagenicity** Not classified based on available data.

**Reproductive toxicity** Not classified based on available data.

**Target Organ Effects (STOT)** None known.

**STOT - single exposure** Not classified based on available data.

**STOT - repeated exposure** Not classified based on available data.

**Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

**Aspiration hazard** Not classified based on available data.

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Acute aquatic toxicity - Product Information**

No experimental data available

**Acute aquatic toxicity - Component Information**

No information available

**Chronic aquatic toxicity - Product Information**

No experimental data available

**Chronic aquatic toxicity - Component Information**

Version GNAM



SDS # : 088989

**KLEENOIL 220**

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Revision Date: 2018-09-12

Version 1

No information available

**Effects on terrestrial organisms** No experimental data available .**Persistence and degradability****General Information** No information available.**Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information** No information available.**Mobility****Soil** Given its physical and chemical characteristics, the product has no soil mobility.**Air** Loss by evaporation is limited**Water** The product is insoluble and floats on water**Other adverse effects****General Information** No information available**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste Disposal Methods** Dispose of in accordance with local regulations.**Contaminated packaging** Dispose of in accordance with local regulations.**California Hazardous Waste Codes 221**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

**14. TRANSPORT INFORMATION**

Version GNAM





SDS # : 088989

**KLEENOIL 220**

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Version 1

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>ADR/RID</u>	Not regulated
<u>ADN</u>	Not regulated

**15. REGULATORY INFORMATION****U.S. 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**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**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).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**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.

**U.S. State Regulations**

Version GNAM



SDS # : 088989

**KLEENOIL 220**

Date of the previous version: not applicable

Revision Date: 2018-09-12

Version 1

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations****16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazard 1</b>	<b>Flammability 1</b>	<b>Instability 0</b>	<b>Special hazards -</b>
<b>HMIS</b>	<b>Health Hazard 1</b>	<b>Flammability 1</b>	<b>Physical Hazard 0</b>	<b>Personal protection X</b>

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

**Revision Date:** 2018-09-12  
**Revision Note** Initial Release

**Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

**Legend**

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDLH - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

Version GNAM



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**SDS # :** 088989

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**Version** 1

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**This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.**

**End of the Safety Data Sheet**

Version GNAM