



### 1. Identification

Product identifier	KLONDIKE SAE 40 Lo	w Ash Sour Natural Gas Oil
Other means of identification Product code Recommended use	SAE 40 Low Ash Sour Na Heavy Duty Engine Oil	tural Gas
Recommended restrictions	No restrictions on use kno	wn.
Chemical family	Petroleum hydrocarbon	
Manufacturer		
	KLONDIKE Lubricants Co 3078 275th Street Langley, BC, Canada V4W 3L4 info@klondikelubricants.co www.klondikelubricants.co General Information Chemtrec (Within US) Chemtrec (International)	om om 1-877-293-4691 1-800-424-9300
Supplier information	Refer to Manufacturer	

## 2. Hazard(s) Identification

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not currently regulated by Hazcom 2012 or WHMIS 2015. Consult section 12 for details.
OSHA defined hazards	No OSHA defined hazard classes.
Label elements	None required according to OSHA Hazcom 2012.
Signal Word	None.
Hazard statement(s)	The mixture does not meet the criteria for classification.
Precautionary statement(s)	
Prevention	None required.
Response	None required.
Storage	None required.
Disposal	None required.
Hazard(s) not otherwise Classified (HNOC)	Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Contact with eyes or skin may cause mild irritation.
Supplemental Information	None reported by the manufacturer.

### 3. Composition/information on ingredients

### Mixture

Chemical name	Common name and synonyms	CAS number	Concentration (%)
Hydrotreated heavy paraffinic distillate	Hydrotreated heavy paraffinic (severely refined)	64742-54-7	0.00

The % concentrations for the above listed chemicals will vary from batch to batch. Concentrations listed represent the actual concentration range for each chemical.

### 4. First-aid measures

Inhalation	If breathing is difficult, trained personnel should give oxygen. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	For skin contact, flush with water for at least 15 minutes, while removing contaminated clothing. If skin irritation occurs, get medical advice/attention.
Eye contact	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
Ingestion	Do NOT induce vomiting. Rinse mouth. If irritation or symptoms develop, seek medical attention.
Most important symptoms and effects, both acute and delayed	May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
General Information	None reported by the manufacturer.
5. Fire-fighting measures	
Suitable extinguishing media	Water. Water spray. Dry chemicals. Foam. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Thermal decomposition or combustion may liberate toxic gases or fumes.
Special protective equipment and precautions for fire-fighters	Firefighters should wear an approved full-face, self-contained breathing apparatus ${f s}$ (SCBA) and impervious clothing.
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Avoid release to the environment.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion produc	<b>ts</b> Carbon oxides. Nitrogen oxides (NOx).
6. Accidental release mea	asures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	
	When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage,

including any incompatibilities Keep container tightly closed. Keep cool. Store away from incompatible materials.

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

## U.S. OSHA Exposure Limits (29 CFR 1910)

-	Туре	Value	
Hydrotreated heavy paraffinic distillate (CAS 64742-54-7)			
· · ·	TWA	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	
US. ACGIH Threshold Limit \	/alues		
	Туре	Value	
Hydrotreated heavy paraffinic distillate (CAS 64742-54-7)	TWA	5 mg/m <sup>3</sup> (inhalable) (severely refined mineral oils)	
Biological limit values			
	No biological exp	osure limits noted for the ingredient(s).	
Appropriate engineering controls	0 1	ventilation, especially in confined areas.	
Individual protection measures,	such as persona	al protective equipment	
Eye / face protection	Wear safety glass	ses with side shields ( or goggles).	
Skin protection			
Hand protection	Chemical resistar	nt gloves recommended.	
Other	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health or safety professional or manufacturer for specific information.		
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.		
Thermal hazards	Not available.		
General hygiene considerations	material and befo	good personal hygiene measures, such as washing after handling the bre eating, drinking, and/or smoking. Routinely wash work clothing uipment to remove contaminants.	

### 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Viscous liquid
Color	Dark amber.
Odor	Mild petroleum odour.
Odor threshold	Not available.
рН	Not available.
Melting point /freezing point	Not available.
Initial boiling point and boiling	range
	Not available.
Flash point	>200°C
	Cleveland closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Lower flammability/explosive limit	Not available.
Upper flammability/explosive limit	Not available.
Vapour pressure	Not available.

Vapour density         Not available.           Relative density         0.8723           Other solubility(ies)         Not available.           Other solubility(ies)         Insoluble.           Partition coefficient         Not available.           Incoctanol/water)         Not available.           Auto-ignition temperature         Not available.           Viscosity         140           Other information         Not available.           Explosive properties         Not available.           Oxidizing properties         Not available.           Oxidizing properties         Not available.           VOC         Not available.           Flame projection         Not available.           Flame projection         Not available.           Instruct prosesure of container         Not available.           Other physical/chemical data         None known or reported by the manufacturer.           physical/chemical data         The product is stable and non-reactive under normal conditions of use, storage and transport.           Chemical stability         Stable under normal conditions. <th>Relative density     0.8723       Solubility(les)     Not available.       Other solubility(vater)     Insoluble.       Partition coefficient     Not available.       (n-octanol/water)     Not available.       Auto-ignition temperature     Not available.       Decomposition temperature     Not available.       Viscosity     140       Other information     Not available.       Specific gravity     0.8723       Oxidizing properties     Not available.       Specific gravity     0.8723       Oxidizing properties     Not available.       VOC     Not available.       Vocc     Not available.       Voltarilities %     Not available.       Flame projection length     Not available.       Not available.     Not available.       Other physical/chemical data     Not available.       Possibility and reactivity     Stable under normal conditions.       Possibility of hazardous reactions covoid     Hazardous polymerization does not occur.       Conditions to avoid     High temperatures, flame, sparks, high humidity, light, water, and moisture.</th> <th></th> <th></th>	Relative density     0.8723       Solubility(les)     Not available.       Other solubility(vater)     Insoluble.       Partition coefficient     Not available.       (n-octanol/water)     Not available.       Auto-ignition temperature     Not available.       Decomposition temperature     Not available.       Viscosity     140       Other information     Not available.       Specific gravity     0.8723       Oxidizing properties     Not available.       Specific gravity     0.8723       Oxidizing properties     Not available.       VOC     Not available.       Vocc     Not available.       Voltarilities %     Not available.       Flame projection length     Not available.       Not available.     Not available.       Other physical/chemical data     Not available.       Possibility and reactivity     Stable under normal conditions.       Possibility of hazardous reactions covoid     Hazardous polymerization does not occur.       Conditions to avoid     High temperatures, flame, sparks, high humidity, light, water, and moisture.		
Solubility(ies)       Not available.         Solubility (water)       insoluble.         Partition coefficient       Not available.         (n-octanol/water)       Not available.         Auto-ignition temperature       Not available.         Decomposition temperature       Not available.         Viscosity       140         Other information       Not available.         Explosive properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         Flame projection       Not available.         Iength       Not available.         Flashback observed       Not available.         Absolute pressure of container       Not available.         Other       None known or reported by the manufacturer.         physical/chemical data       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under no	Solubility(les)       Not available.         Other solubility (water)       Insoluble.         Partition coefficient       Not available.         (n-octanol/water)       Not available.         Auto-ignition temperature       Not available.         Decomposition temperature       Not available.         Decomposition temperature       Not available.         Viscosity       140         Other information       Explosive properties         Specific gravity       0.8723         Oxidizing properties       Not available.         VOC       Not available.         VOC       Not available.         VoC       Not available.         VoC       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Flame projection       Not available.         Insolute pressure of container       Not available.         Other       None known or reported by the manufacturer.         physical/chemical data       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions to avoid		
Other solubility(ies) Solubility (water)         Not available. Insoluble.           Partition coefficient (n-octanol/water)         Not available.           Auto-ignition temperature Decomposition temperature Viscosity         Not available.           Decomposition temperature Viscosity         Not available.           Decomposition temperature Viscosity         Not available.           Decomposition temperature Viscosity         Not available.           Optimizing properties Oxidizing properties         Not explosive Not available.           Specific gravity         0.8723           Critical temperature VOC         Not available.           VOC         Not available.           Volc         Not available.           Flame projection length         Not available.           Other physical/chemical data         Not available.           Not available.         Not available.           Chemical stability         The product is stable and non-reactive under normal conditions of use, storage and transport.           Reactivity         Table under normal conditions.           Possibility of hazardous polymerization does not occur.         Hazardous poly	Other solubility(ies) Solubility (water)         Not available.           Partition coefficient (n-octanol/water)         Not available.           Auto-ignition temperature Decomposition temperature         Not available.           Viscosity         140           Other information         Not available.           Explosive properties         Not available.           Oxidizing properties         Not available.           Oxidizing properties         Not available.           Oxidizing properties         Not available.           Oxidizing properties         Not available.           VOC         Not available.           Volatilities %         Not available.           Volatilities %         Not available.           Volatilities %         Not available.           Volatilable         Not available.           Volatilable projection         Not available.           Possibility and reactivity         The product is stable and non-reactive under normal conditions of use, storage and transport.           Chemical stability         Stable under normal condit	-	0.8723
Solubility (water) Insoluble.       Insoluble.         Partition coefficient (n-octanol/water)       Not available.         Auto-ignition temperature Decomposition temperature Viscosity       Not available.         Viscosity       140         Other information       Not available.         Explosive properties       Not available.         Oxidizing properties       Not available.         Oxidizing properties       Not available.         Oxidizing properties       Not available.         VOC       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Flame projection length       Not available.         Flame projection length       Not available.         Flashback observed Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         Physical/chemical data       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions       Hazardous polymerization does not occur.	Solubility (water)         Insoluble.           Partition coefficient (n-octanol/water)         Not available.           Auto-ignition temperature Decomposition temperature Viscosity         Not available.           Viscosity         140           Other information         Not available.           Explosive properties         Not explosive           Oxidizing properties         Not available.           Oxidizing properties         Not available.           Oxidizing properties         Not available.           Oxidizing properties         Not available.           VOC         Not available.           Volatilities %         Not available.           Flame projection length         Not available.           Flashback observed Absolute pressure of container         Not exnown or reported by the manufacturer.           Other physical/chemical data         None known or reported by the manufacturer.           Reactivity         The product is stable and non-reactive under normal conditions of use, storage and transport.           Chemical stability of hazardous reactions         Hazardou		
Partition coefficient (n-octanol/water)       Not available.         Auto-ignition temperature Decomposition temperature Viscosity       Not available.         Viscosity       140         Other information       Not available.         Explosive properties       Not available.         Oxidizing properties       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Flame projection length       Not available.         Flame projection container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         Physical/chemical data       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability of hazardous       Hazardous polymerization does not occur. <th>Partition coefficient (n-octanol/water)     Not available.       Auto-ignition temperature Decomposition temperature Viscosity     Not available.       Decomposition temperature Viscosity     Not available.       Viscosity     140       Other information     Not explosive       Explosive properties     Not available.       Oxidizing properties     Not available.       Specific gravity     0.8723       Critical temperature     Not available.       VOC     Not available.       Flame projection length     Not available.       Flashback observed Absolute pressure of container     Not available.       Other physical/chemical data     None known or reported by the manufacturer.       Physical/chemical data     None known or reported by the manufacturer.       Physical/schemical data     The product is stable and non-reactive under normal conditions of use, storage and transport.       Chemical stability     Stable under normal conditions.       Possibility of hazardous reactions     Hazardous polymerization does not occur.       Conditions to avoid     High temperatures, flame, sparks, high humidity, light, water, and moisture.</th> <th>• • • •</th> <th></th>	Partition coefficient (n-octanol/water)     Not available.       Auto-ignition temperature Decomposition temperature Viscosity     Not available.       Decomposition temperature Viscosity     Not available.       Viscosity     140       Other information     Not explosive       Explosive properties     Not available.       Oxidizing properties     Not available.       Specific gravity     0.8723       Critical temperature     Not available.       VOC     Not available.       Flame projection length     Not available.       Flashback observed Absolute pressure of container     Not available.       Other physical/chemical data     None known or reported by the manufacturer.       Physical/chemical data     None known or reported by the manufacturer.       Physical/schemical data     The product is stable and non-reactive under normal conditions of use, storage and transport.       Chemical stability     Stable under normal conditions.       Possibility of hazardous reactions     Hazardous polymerization does not occur.       Conditions to avoid     High temperatures, flame, sparks, high humidity, light, water, and moisture.	• • • •	
(n-octanol/water)       Not available.         Auto-ignition temperature       Not available.         Decomposition temperature       Not available.         Viscosity       140         Other information       Explosive properties         Not available.       Not available.         Oxidizing properties       Not available.         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Flame projection       Not available.         length       Not available.         Flashback observed       Not available.         Absolute pressure of container       None known or reported by the manufacturer.         Other       none known or reported by the manufacturer.         physical/chemical data       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability of hazardous	(n-octanol/water)Not available.Auto-ignition temperature Decomposition temperature ViscosityNot available.Decomposition temperature Decomposition temperature ViscosityNot available.Viscosity140Other informationExplosive properties Not available.Explosive properties Oxidizing properties Critical temperature VOCNot explosive Not available.VOC Volatilities %Not available.VOC Volatilities %Not available.Vot available. Voc Not available.Not available.Flame projection lengthNot available.Flame projection containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.Possibility and reactivity reactions reactionsThe product is stable and non-reactive under normal conditions of use, storage and transport.Possibility of hazardous reactions reactionsHazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.	• • •	Insoluble.
Auto-ignition temperature Decomposition temperature Viscosity       Not available. Not available. 140         Other information       140         Explosive properties       Not explosive Not available. Specific gravity       Not explosive Not available.         Oxidizing properties       Not available. Not available.       Not available.         VOC       Not available.       Not available.         VOC       Not available.       Not available.         Voltatilities %       Not available.       Not available.         Flame projection length       Not available.       Not available.         Not available.       Not available.       Not available.         Absolute pressure of container       Not available.       Not available.         Other physical/chemical data       None known or reported by the manufacturer.       Not available.         Reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.       Stable under normal conditions.         Possibility of hazardous reactions       Hazardous polymeri	Auto-ignition temperature Decomposition temperature Viscosity       Not available.         Viscosity       140         Other information       140         Explosive properties       Not explosive         Oxidizing properties       Not available.         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Flame projection       Not available.         length       Not available.         Flame projection       Not available.         length       Not available.         Flame projection       Not available.         length       Not available.         Plashback observed       Not available.         Absolute pressure of container       Not available.         Other       None known or reported by the manufacturer.         physical/chemical data       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous       Hazardous polymerization does not occur.         Gonditions to		Not available.
Decomposition temperature Viscosity       Not available.         Viscosity       140         Other information       140         Explosive properties       Not explosive         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Flame projection length       Not available.         Flashback observed Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         Possibility of hazardous reactions       The product is stable and non-reactive under normal conditions of use, storage and transport.	Decomposition temperature Viscosity       Not available.         Viscosity       140         Other information       140         Explosive properties       Not explosive         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Flame projection       Not available.         Iength       Not available.         Flashback observed       Not available.         Absolute pressure of container       Not available.         Other       Not available.         Not available.       Not available.         Vot for mphysical/chemical data       Not available.         Not available.       Not available.         Other       None known or reported by the manufacturer.         physical/chemical data       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous       Hazardous polymerization does not occur.         Gonditions to avoid       High temperatures, flame, sparks, high humidity, light, water, and moi	· /	Not available
Viscosity       140         Other information       Explosive properties         Explosive properties       Not explosive         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         VOC       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Flame projection length       Not available.         Flashback observed       Not available.         Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         Possibility and reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous       Stable under normal conditions.         Preactions       Hazardous polymerization does not occur.	Viscosity       140         Other information       Information         Explosive properties       Not explosive         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Flame projection       Not available.         length       Not available.         Flashback observed       Not available.         Absolute pressure of container       Not available.         Other       Not exnown or reported by the manufacturer.         physical/chemical data       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous       Hazardous polymerization does not occur.         Pontitions to avoid       Hazardous polymerization does not occur.         Incompatible materials       Hazardous polymerization does not occur.	÷ .	
Other information       Explosive properties       Not explosive         Oxidizing properties       Not available.         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Volatilities %       Not available.         Flame projection length       Not available.         Flashback observed       Not available.         Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         Reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous       Hazardous polymerization does not occur.	Other information         Explosive properties         Not explosive           Oxidizing properties         Not available.         Not available.           Specific gravity         0.8723           Critical temperature         Not available.           VOC         Not available.           VOC         Not available.           VOC         Not available.           VOC         Not available.           Votatilities %         Not available.           Flame projection length         Not available.           Flashback observed Absolute pressure of container         Not available.           Other physical/chemical data         None known or reported by the manufacturer.           Reactivity         The product is stable and non-reactive under normal conditions of use, storage and transport.           Chemical stability         Stable under normal conditions.           Possibility of hazardous reactions         Hazardous polymerization does not occur.           Conditions to avoid         Hazardous polymerization does not occur.           Incompatible materials         Hazardous polymerization does not occur.		
Explosive properties       Not explosive         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Flame projection       Not available.         Iength       Not available.         Flashback observed       Not available.         Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         Preactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability of hazardous reactivity       Stable under normal conditions.         Possibility of hazardous reactive preactions is to avoid       Hazardous polymerization does not occur.	Explosive properties       Not explosive         Oxidizing properties       Not available.         Specific gravity       0.8723         Critical temperature       Not available.         VOC       Not available.         VOC       Not available.         VOC       Not available.         Volatilities %       Not available.         Flame projection length       Not available.         Flashback observed Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         Other physical/chemical data       None known or reported by the manufacturer.         Reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions       Hazardous polymerization does not occur.         Hazardous polymerization does not occur.       High temperatures, flame, sparks, high humidity, light, water, and moisture.	•	
Oxidizing properties Specific gravityNot available.Oxidizing properties Specific gravity0.8723Critical temperature VOCNot available.VOCNot available.Volatilities %Not available.Flame projection lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.Other physical/chemical dataNone known or reported by the manufacturer.Chemical stabilityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur.	Oxidizing properties Specific gravityNot available. 0.8723Critical temperature VOCNot available.VOCNot available.VOCNot available.Volatilities %Not available.Flame projection lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNot available.10. Stability and reactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.		Natavalasiva
Specific gravity0.8723Critical temperatureNot available.VOCNot available.VOENot available.Flame projection lengthNot available.Flashback observedNot available.Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.Other physical/chemical dataThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.	Specific gravity0.8723Critical temperatureNot available.VOCNot available.Volatilities %Not available.Flame projection lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.ReactivityStable under normal conditions.Possibility of hazardous reactionsStable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.		·····
Critical temperature       Not available.         VOC       Not available.         Volatilities %       Not available.         Flame projection length       Not available.         Flashback observed       Not available.         Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         Io. Stability and reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions       Hazardous polymerization does not occur.	Critical temperature VOCNot available.VOCNot available.Volatilities %Not available.Flame projection lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.Other physical/chemical dataNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.	- · ·	
VOCNot available.Volatilities %Not available.Flame projection lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.Other physical/chemical dataNone known or reported by the manufacturer.IO. Stability and reactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.	VOCNot available.Volatilities %Not available.Flame projection lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.Other physical/chemical dataNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur.Incompatible materialsHigh temperatures, flame, sparks, high humidity, light, water, and moisture.		
Volatilities %       Not available.         Flame projection length       Not available.         Flashback observed Absolute pressure of container       Not available.         Other physical/chemical data       Note known or reported by the manufacturer.         Other physical/chemical data       None known or reported by the manufacturer.         Io. Stability and reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions       Hazardous polymerization does not occur.	Volatilities %Not available.Flame projection lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNot available.10. Stability and reactivityNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.		
Flame projection lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.Other physical/chemical dataNone known or reported by the manufacturer.Io. Stability and reactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.	Flame projection length       Not available.         Flashback observed Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         10. Stability and reactivity       None known or reported by the manufacturer.         Reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions       Hazardous polymerization does not occur.         Conditions to avoid       High temperatures, flame, sparks, high humidity, light, water, and moisture.		
lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivityNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur.	lengthNot available.Flashback observed Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.Other physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.Incompatible materialsHigh temperatures, flame, sparks, high humidity, light, water, and moisture.		
Flashback observed Absolute pressure of containerNot available. Not available. Not available.Other physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivityNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions conditions to avoidHazardous polymerization does not occur.	Flashback observed Absolute pressure of container       Not available.         Other physical/chemical data       None known or reported by the manufacturer.         10. Stability and reactivity       None known or reported by the manufacturer.         Reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       The product is stable and non-reactive under normal conditions of use, storage and transport.         Possibility of hazardous reactions Conditions to avoid       Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.         Incompatible materials       Hot available.		Not available.
Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivityNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur.	Absolute pressure of containerNot available.Other physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivityNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur.Incompatible materialsHamilton and materials	-	
containerNore known or reported by the manufacturer.Other physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur.	containerInterventionOther physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivityNone known or reported by the manufacturer.ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.Incompatible materialsHazardous flame, sparks, high humidity, light, water, and moisture.		
Other physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivity	Other physical/chemical dataNone known or reported by the manufacturer.10. Stability and reactivity		Not available.
physical/chemical data       None information of operiod by the manufacture         10. Stability and reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions       Hazardous polymerization does not occur.         Conditions to avoid       Hazardous polymerization does not occur.	physical/chemical dataInterference of the individual of the		
10. Stability and reactivity         Reactivity         The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability         Possibility of hazardous reactions         reactions         Conditions to avoid	10. Stability and reactivityReactivityReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityPossibility of hazardous reactions Conditions to avoidHazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.Incompatible materials		
Reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions       Hazardous polymerization does not occur.         Conditions to avoid       Hazardous polymerization does not occur.	Reactivity       The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability       Stable under normal conditions.         Possibility of hazardous reactions       Stable under normal conditions.         Conditions to avoid       Hazardous polymerization does not occur.         Incompatible materials       High temperatures, flame, sparks, high humidity, light, water, and moisture.	physical/chemical da	ta
The product is stable and non-reactive under normal conditions of use, storage and transport.         Chemical stability         Possibility of hazardous         reactions         Conditions to avoid	The product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.Conditions to avoidHazardous polymerization does not occur.Incompatible materialsHazardous polymerization does not occur.	10. Stability and reactiv	ity
transport.         Chemical stability         Stable under normal conditions.         Possibility of hazardous         reactions         Hazardous polymerization does not occur.         Conditions to avoid	transport.         Chemical stability         Possibility of hazardous         reactions         Conditions to avoid         High temperatures, flame, sparks, high humidity, light, water, and moisture.         Incompatible materials		
Stable under normal conditions.         Possibility of hazardous         reactions       Hazardous polymerization does not occur.         Conditions to avoid	Stable under normal conditions.         Possibility of hazardous         reactions         Conditions to avoid         High temperatures, flame, sparks, high humidity, light, water, and moisture.         Incompatible materials	Reactivity	
Possibility of hazardous         reactions       Hazardous polymerization does not occur.         Conditions to avoid       Hazardous polymerization does not occur.	Possibility of hazardous       Hazardous polymerization does not occur.         reactions       Hazardous polymerization does not occur.         Conditions to avoid       High temperatures, flame, sparks, high humidity, light, water, and moisture.         Incompatible materials       High temperatures, flame, sparks, high humidity, light, water, and moisture.	Reactivity	
reactions       Hazardous polymerization does not occur.         Conditions to avoid       Hazardous polymerization does not occur.	reactions       Hazardous polymerization does not occur.         Conditions to avoid       High temperatures, flame, sparks, high humidity, light, water, and moisture.         Incompatible materials       High temperatures, flame, sparks, high humidity, light, water, and moisture.	-	transport.
Conditions to avoid	Conditions to avoid High temperatures, flame, sparks, high humidity, light, water, and moisture. Incompatible materials	Chemical stability	transport.
High temperatures flame sparks high humidity light water and moisture	Incompatible materials	Chemical stability Possibility of hazardous	transport. Stable under normal conditions.
right competatives, name, sparks, fight humany, light, water, and moleture.	•	Chemical stability Possibility of hazardous reactions	transport. Stable under normal conditions.
	Oxidizing agents	Chemical stability Possibility of hazardous reactions	transport. Stable under normal conditions. Hazardous polymerization does not occur.
		Chemical stability Possibility of hazardous reactions Conditions to avoid	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.
		Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents
	products Nitrogen oxides (NUX)	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides.
		Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
	products       Nitrogen oxides (NOx).         11. Toxicological information	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
Information on likely routes of exposure	11. Toxicological information	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
Information on likely routes of exposure Routes of entry inhalation YES	11. Toxicological information Information on likely routes of exposure	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). nation s of exposure
	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Mation s of exposure tion YES
Routes of entry inhalation YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin 8	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nation s of exposure tion YES eye YES
Routes of entry inhalation YES Routes of entry skin & eye YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES Routes of entry Ingestion YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lingest	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nitrogen oxides (NOx). to YES eye YES ion YES
Routes of entry inhalationYESRoutes of entry skin & eyeYESRoutes of entry IngestionYESRoutes of exposure skinYESabsorption	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES Routes of entry Ingestion YES Routes of exposure skin YES absorption	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lingest Routes of exposure st absorption	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nitrogen oxides (NOx). to YES eye YES ion YES
Routes of entry inhalationYESRoutes of entry skin & eyeYESRoutes of entry IngestionYESRoutes of exposure skinYESabsorptionYESMost important	11. Toxicological information         Information on likely routes of exposure         Routes of entry inhalation       YES         Routes of entry skin & eye       YES         Routes of entry lngestion       YES         Routes of exposure skin       YES         absorption       YES         Most important       YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lingest Routes of exposure sl absorption Most important	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nation s of exposure tion YES eye YES ion YES in YES
Routes of entry inhalation       YES         Routes of entry skin & eye       YES         Routes of entry Ingestion       YES         Routes of exposure skin absorption       YES         Most important symptoms/effects, acute and       May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause	11. Toxicological information         Information on likely routes of exposure         Routes of entry inhalation       YES         Routes of entry skin & eye       YES         Routes of entry lngestion       YES         Routes of exposure skin       YES         absorption       YES         Most important       May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lngest Routes of exposure st absorption Most important symptoms/effects, acute a	<ul> <li>transport.</li> <li>Stable under normal conditions.</li> <li>Hazardous polymerization does not occur.</li> <li>High temperatures, flame, sparks, high humidity, light, water, and moisture.</li> <li>Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).</li> </ul> nation s of exposure tion YES eye YES ion YES iion YES iii YES
products Nitrogen oxides (NOx).		Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides.
11. Toxicological information	products Nitrogen oxides (NOX).	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides.
		Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
		Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
	11. Toxicological information	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
Information on likely routes of exposure	11. Toxicological information	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
	11. Toxicological information Information on likely routes of exposure	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). nation s of exposure
	11. Toxicological information Information on likely routes of exposure	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). nation s of exposure
Routes of entry inhalation YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Mation s of exposure tion YES
Routes of entry inhalation YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Mation s of exposure tion YES
Routes of entry inhalation YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Mation s of exposure tion YES
Routes of entry inhalation YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Mation s of exposure tion YES
Routes of entry inhalation YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Mation s of exposure tion YES
Routes of entry inhalation YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Mation s of exposure tion YES
Routes of entry inhalation YES Routes of entry skin & eye YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin 8	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nation s of exposure tion YES eye YES
Routes of entry inhalation YES Routes of entry skin & eye YES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin 8	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nation s of exposure tion YES eye YES
Routes of entry inhalationYESRoutes of entry skin & eyeYESRoutes of entry IngestionYES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES Routes of entry Ingestion YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lingest	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nitrogen oxides (NOx). to YES eye YES ion YES
Routes of entry inhalationYESRoutes of entry skin & eyeYESRoutes of entry IngestionYESRoutes of exposure skinYES	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES Routes of entry Ingestion YES Routes of exposure skin YES	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lngest Routes of exposure st	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nitrogen oxides (NOx). to YES eye YES ion YES
Routes of entry inhalationYESRoutes of entry skin & eyeYESRoutes of entry IngestionYESRoutes of exposure skinYESabsorption	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES Routes of entry Ingestion YES Routes of exposure skin YES absorption	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lingest Routes of exposure st absorption	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nitrogen oxides (NOx). to YES eye YES ion YES
Routes of entry inhalationYESRoutes of entry skin & eyeYESRoutes of entry IngestionYESRoutes of exposure skinYESabsorptionYESMost importantImportant	11. Toxicological information Information on likely routes of exposure Routes of entry inhalation YES Routes of entry skin & eye YES Routes of entry Ingestion YES Routes of exposure skin YES absorption Most important	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lingest Routes of exposure sl absorption Most important	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Nation s of exposure tion YES eye YES ion YES in YES
Routes of entry inhalationYESRoutes of entry skin & eyeYESRoutes of entry IngestionYESRoutes of exposure skinYESabsorptionYESMost importantImportant	11. Toxicological information         Information on likely routes of exposure         Routes of entry inhalation       YES         Routes of entry skin & eye       YES         Routes of entry lngestion       YES         Routes of exposure skin       YES         absorption       YES         Most important       May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological inform Information on likely route Routes of entry inhala Routes of entry skin & Routes of entry lngest Routes of exposure st absorption Most important symptoms/effects, acute a	<ul> <li>transport.</li> <li>Stable under normal conditions.</li> <li>Hazardous polymerization does not occur.</li> <li>High temperatures, flame, sparks, high humidity, light, water, and moisture.</li> <li>Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).</li> </ul> nation s of exposure tion YES eye YES ion YES iion YES iii YES

Information on toxicological effects

#### Acute toxicity

See below for toxicological data on the substance.

Components	Species	Test Results
Hydrotreated heavy paraffi	inic distillate	
Acute		
Dermal		
LD50	Rabbit	>5000 mg/kg
inhalation		
LC50	Rat	>5.53 mg/L
Oral		
LD50	Rat	>15,000 mg/kg
Skin Corrosion/Irritatio	on May cause mile	d skin irritation.
Serious eye damage/Ir	ritation May cause mild	d eye irritation.
Respiratory or skin sensitization	Not expected t	to be a skin or respiratory sensitizer.
Germ cell mutagenicit	y Not expected to	o be mutagenic.
Carcinogenicity	No components	s are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive toxicity	This product is	not expected to cause reproductive effects.
Specific target organ t single exposure	oxicity - Not classified a	as a specific target organ toxicity-single exposure.
Specific target organ t repeated exposure	oxicity - Not classified a	as specific target organ toxicity-repeated exposure.
Chronic effects		epeated skin contact may cause defatting and drying resulting in ossible dermatitis.
Aspiration toxicity	Not expected to	o be an aspiration hazard.
Further information	None reported	by the manufacturer.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

			Toxicity to Fish	
Ingredients	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Hydrotreated heavy paraffinic distillate	64742-54-7	>5000 mg/L (Rainbow trout)	n/av	none
Ingredients	CAS No	Тс	oxicity to Daphnia	
ingreatents		EC50 / 48h	NOEC / 21 day	M Factor
Hydrotreated heavy paraffinic	64742-54-7	n/av	n/av	none

Ingredients	CAS No	То	xicity to Algae	
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrotreated heavy paraffinic distillate	64742-54-7	n/av	n/av	none

#### Persistence and degradability

Persistence and degradability			
	Not readily biodegradable.		
Bioaccumulation potential	Not available.		
<b>Components</b>	Partition coefficient n-octanol/water (log	<b>Bioconcentration factor (BCF)</b>	
	<u>Kow)</u>		
Hydrotreated heavy paraffinic distillate (CAS 64742-54-7)	3.9-6	N/Av	
Mobility in soil	Not available.		
Other adverse effects			
	No other adverse environmental effects (e.g. ozon creation potential, endocrine disruption, global war this component.		
13. Disposal consideratio	n		
Disposal instructions	Collect and reclaim or dispose in sealed containers	s at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulation	ons.	
Hazardous waste code	The Waste code should be assigned in discussion the waste disposal company.	between the user, the producer and	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
Contaminated packaging	Empty containers should be taken to an approved disposal.	waste handling site for recycling or	
	Since emptied containers may retain product resid container is emptied.	ue, follow label warnings even after	

### 14. Transport information

## 49CFR/DOT Not regulated as dangerous goods ICAO/IATA Not regulated as dangerous goods IMDG Not regulated as dangerous goods TDG Not regulated as dangerous goods Ceneral information Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

### 15. Regulatory information US Federal Information:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory list.

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Se 372, Specific To	xic Chemical
		,	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration
Hydrotreated heavy paraffinic distillate	64742-54-7	Yes	N/Ap	N/Av	No	N/Ap

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard -	NO
	Delayed Hazard -	NO
	Fire Hazard -	NO
	Pressure Hazard -	NO
	Reactivity Hazard -	NO

#### **US state regulations**

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California	State "Right to Know" Lists						
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Hydrotreated heavy paraffinic distillate	64742-54-7	No	N/Ap	No	No	No	No	No	No

#### Canadian Information:

Not regulated.

# Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

#### **International Inventories**

Components listed below are present on the following International Inventory lists:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Hydrotreated heavy paraffinic distillate	64742-54-7	265-157-1	Present	Present	(2)-10; (9)-1692; (9) -1692	KE-12546	Present	No data available.

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

Issue date	05/06/2016
Version #	1
Legend	ACGIH: American Conference of Governmental Industrial Hygienists CA: California CAS: Chemical Abstract Services CEPA: Canadian Environmental Protection Act CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations CPR: Controlled Products Regulation CSA: Canadian Standards Association DOT: Department of Transportation DSL: Domestic Substances List EPA: Environmental Protection Agency HMIS: Hazardous Materials Identification System HPA: Hazardous Products Act HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods Inh: Inhalation LC: Lethal Concentration ID: Lethal Dose
	LD: Lethal Dose

	MA: Massachusetts MN: Minnesota
	N/Ap: Not Applicable
	N/Av: Not Available NFPA: National Fire Protection Association
	NIOSH: National Institute of Occupational Safety and Health
	NJ: New Jersey
	NOEC: No observable effect concentration NTP: National Toxicology Program
	OECD: Organisation for Economic Co-operation and Development
	OEL: National occupational exposure limits
	OSHA: Occupational Safety and Health Administration PA: Pennsylvania
	PEL: Permissible exposure limit
	PPE: Personal Protective Equipment
	RCRA: Resource Conservation and Recovery Act RI: Rhode Island
	RQ: Reportable Quantity
	RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet
	STEL: Short Term Exposure Limit
	TDG: Canadian Transportation of Dangerous Goods Act & Regulations
	TLV: Threshold Limit Values TWA: Time Weighted Average
	WEL: Workplace Exposure Limit
	WHMIS: Workplace Hazardous Materials Identification System
Other special considerations f	-
	Provide adequate information, instruction and training for operators.
HMIS Rating	*- Chronic hazard         0 - Minimal         1 - Slight         2 - Moderate         3 - Serious         4 - Severe           Health:         0         Flammability:         0         Reactivity:         0
NFPA Rating	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
-	Health: 0 Flammability:0 Instability:0 Special Hazards: None.
Disclaimer	The information in this document was written based on the best knowledge
	and experience currently available, and is offered for your consideration and
	guidance when exposed to this product. KLONDIKE Lubricants Corporation disclaim all expressed or implied warranties and
	assume no responsibilities for the accuracy or completeness of the data contained
	herein. The data in this document does not apply to use with any other product or
	in any other process. This document may not be changed, or altered in any way without the expressed knowledge and permission of KLONDIKE Lubricants
	Corporation.
Bibliography	1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &
0 1 9	Biological Exposure Indices for 2016
	<ol> <li>International Agency for Research on Cancer Monographs, searched 2016</li> <li>Canadian Centre for Occupational Health and Safety, CCInfoWeb databases,</li> </ol>
	2016(Chempendium, HSDB and RTECs).
	4. Material Safety Data Sheets from manufacturer.
	<ol> <li>US EPA Title III List of Lists - 2016 version.</li> <li>California Proposition 65 List - 2016 version.</li> </ol>
	7. OECD - The Global Portal to Information on Chemical Substances -
	eChemPortal,2016.