

SAFETY DATA SHEET

Date issued: 18-Apr-16

Heat Transfer Oil

Product Code: 650

SECTION 1: PRODUCT IDENTIFICATION

Product Name	Heat Transfer Oil
Product Code #	650
CAS #	Not applicable for mixtures
Manufacturer	Royal Mfg Co, LP
Synonym	Not applicable
Chemical Name	Not applicable
Chemical Formula	Not applicable
Trade Secret	No
Address	516 S. 25th West Ave. Tulsa, OK 74127
Phone	(918) 584-2671
Emergency Contact	CHEMTREC (24 hour Emergency Telephone), call: 1-800-424-9300 International CHEMTREC, call: 1-800-255-3924
Recommended Use	Heat Transfer Oil
Restrictions on Use	This product must not be used in applications other than recommended in Section 1 without taking the advice from supplier/manufacturer.

SECTION 2: HAZARD(S) IDENTIFICATION

Classifications:	Aquatic Hazard – Acute: Category 3 Aquatic Hazard – Long-term: Category 4
Pictograms:	None
Signal Word:	None
Hazard Statements:	Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.
Precautionary Statements:	P101: If medical advice is needed have product container or label at hand P102: Keep out of reach of children P103: Read Label before use P210: Keep away from Heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking. P211: So not spray on an open flame or other ignition source. P232: Protect from Moisture. P233: Keep container tightly closed P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection P404: Store in a closed container
Percent of the mixture consisting of ingredient(s) of unknown toxicity:	None



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Designation	CAS No.	% of Comp.
None	None	None

SECTION 4: FIRST AID MEASURES

- Eyes:** Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
- Skin:** Immediately remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
- Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask type resuscitator. Call a physician immediately.
- Ingestion:** Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

- Fire Hazard:** No
- Flash Point °C (°F):** > 93.0° (199.4°)
- Flammable Limits:** LOWER: Not determined UPPER: Not determined
- Extinguishing Media:** Water Mist
Foam
Dry Powder
CO2
- Special protective Equipment and firefighting procedures:** Not determined
- Unusual Fire & Explosion:** Not determined

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged container or spilled material unless wearing appropriate protective clothing/equipment. Ventilate the closed area.
- Spills / Leaks:** Isolate the spill/leak area in all directions for about 50 meters (150 ft) for liquids and about 25 meters (75 ft) for solids and semi-solids. Eliminate all ignition sources (no smoking, flares, sparks/flames in close vicinity). Keep unauthorized persons away and ventilate closed space before entering

SECTION 7: HANDLING & STORAGE

- Handling:** Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and prompt removal of material from eyes skin and clothing.
- Storage:** Store in a sealed container in a cool, dry environment.



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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

OSHA Permissible 5 mg/m³

Exposure Limits (PELs) :

Threshold Limit Values 10 mg/m³

(TLVs):

Engineering Controls:

N/A

Personal Protective Equipment:

Face:

Eyes: Safety Glasses

Skin: Gloves

Respiratory:

Pictograms:



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Amber Liquid	Upper Flammability/Explosive Limit:	Not determined
Odor:	Petroleum	Lower Flammability/Explosive Limit:	Not determined
Odor Threshold:	Not determined	Vapor Pressure:	Not determined
pH:	Not determined	Vapor Density:	Not determined
Melting Point °C (°F):	Not determined	Vapor Temperature °C (°F):	Not determined
Freezing Point °C (°F):	Not determined	Relative Density/Specific Gravity:	0.8700
Pour Point °C (°F):	-15.0° (5.0 °)	Solubility:	Not Water Soluble
Boiling Range:	N/A	Partition Coefficient:	Not determined
Flash Point °C (°F):	> 199.4° (93.0°)	Auto-ignition temperature:	Not determined
Flash Point Method used:	ASTM D92	Decomposition temperature:	Not determined
Evaporation Rate:	Not determined	Viscosity (cSt):	7.00 @ 100° C
Flammability:	None	VOC Content:	N/A
		VOC Less Water & Exempts:	N/A

SECTION 10: STABILITY AND REACTIVITY

Chemical Reactivity:	Not determined
Chemical Stability:	Stable under normal ambient temperature and conditions.
Conditions to Avoid:	Extreme temperature and direct sunlight/heat/flame
Materials to Avoid:	Strong oxidizing agents
Hazardous Decomposition:	Not expected

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation

Description of effects from short- and long-term exposure:

Not known

Description of symptoms:

Not known

Measure of toxicity:

Not known



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Ingestion

Description of effects from short- and long-term exposure:

Not known

Description of symptoms:

May cause nausea and vomiting.

Measure of toxicity:

Not known

Eyes

Description of effects from short- and long-term exposure:

Not known

Description of symptoms:

Contact may cause eye irritation.

Measure of toxicity:

Not known

Skin

Description of effects from short- and long-term exposure:

Not known

Description of symptoms:

Prolonged or repeated skin contact may cause irritation.

Measure of toxicity:

Not known

Carcinogens listing:

NTP: No

IARC: No

OSHA: No

GHS: No

Chronic Toxicity: No

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available

Biodegradability: No data available

Bioaccumulation: No data available

SECTION 13: DISPOSAL CONSIDERATION

Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Regulations may vary by location.

SECTION 14 : TRANSPORT INFORMATION

UN Number:

Proper Shipping Name: Royal Heat Transfer Oil

Pictograms:

SECTION 15: REGULATORY INFORMATION

OSHA Regulated Hazard: No

DOT Regulated: No

E C Classification: Non-applicable



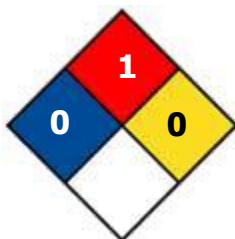
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TSCA Status:	In compliance with TSCA inventory requirements for commercial purposes	
SARA 312 Regulated Chemical(s):	No	
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EPA Registration Number:	Non-applicable	
California Prop. 65:	None	None
PA Right to know Chemical(s):	None known	
NJ Right to know Chemical(s):	None known	
Additional State Regulations:	None known	
Canada:	Non-applicable	

SECTION 16: OTHER INFORMATION

NFPA



HMIS

Heat Transfer Oil	
HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

The above Information is based on the present state of our knowledge of the product at the time of publication. No warranty is implied with respect to the quality or the specification of the product and the user must satisfy themselves that the product is entirely suitable for their purposes.

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End of SDS

