



## SDS FOR STANDARD HEAT TRANSFER OIL

### SECTION 1 : PRODUCTION & COMPANY IDENTIFICATION

TRADE NAME : ISTPURE STANDARD HEAT TRANSFER OIL

PART # : 330066, 330067, 330068, 330069

CHEMICAL NAME AND SYNONYMS : Mixture

MANUFACTURER/SUPPLIER'S NAME:



International  
Surface  
Technologies  
istsurface.com

4160 Industriel Blvd.  
Laval, QC, H7L 6H1  
CANADA  
[istsurface.com](http://istsurface.com)

24 HOURS EMERGENCY :

Call CHEMTREC 1 800 424-9300 or 703 527-3887

PRODUCT USE : It is a heat transfer fluid recommended for non-pressurized, liquid-phase, closed heat transfer systems.

WHMIS CLASS AND DESCRIPTION : This product is not regulated by the WHMIS.

### SECTION 2 : HAZARDS IDENTIFICATION

<b>EMERGENCY OVERVIEW</b>	Repeated exposure may cause skin dryness and cracking
<b>ROUTES OF ENTRY</b>	Dermal contact. Eye contact. Inhalation and Ingestion

#### POTENTIAL ACUTE HEALTH EFFECTS

<b>INHALATION</b>	No acute effect expected as considered non-toxic
<b>CONTACT WITH EYES</b>	This product should not cause eye irritation. Prolonged contact with the product can cause irritation
<b>SKIN CONTACT</b>	This product is practically non-toxic if absorbed through the skin. It may cause a mild irritation through prolonged and repeated contact. The product while hot may cause some burns
<b>INGESTION</b>	Practically non-toxic if ingested. If absorbed in great quantities may cause distress of the digestive system and diarrhea
<b>OTHER EFFECTS</b>	None expected to cause any significant health effect under normal conditions of use. Not MUTAGENIC, GENOTOXIC or SENSITIZING for animals and humans
<b>MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:</b>	Pre-existing disorders involving any target organs mentioned in MSDS as being at risk may be aggravated by the over-exposure to this product.



### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS NUMBER	%
-/-	-/-	-/-

- Contains no hazardous ingredients as defined by the Canadian Hazardous Products Act (BILL C70) or by OSHA 29 CFR 1910.1200.
- Canadian DSL and NDSL status: All ingredients are listed.
- No components of this product have been found carcinogenic or potential carcinogen. Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S. National Toxicology Program (NTP). This product or its components have no teratogenic or mutagenic effects known.

### SECTION 4 : FIRST-AID

<b>GENERAL ADVICE</b>	IN CASE OF SERIOUS OR ANY PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY CARE. Show this material safety data sheet to the medical personel in attendance
<b>INHALATION</b>	If exposed to high levels of vapors or suspensions, take the person to fresh air and get medical attention if cough or other symptoms develop
<b>EYE CONTACT</b>	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately
<b>SKIN CONTACT</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminjated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately
<b>INGESTION</b>	This product has a low toxicity. May cause nausea and have a laxative effect. Do not induce vomiting. Contact an Anti-Poison Center (1-800-463-5060)
<b>PROTECTION OF FIRST-AIDERS</b>	Do not use mouth to mouth if the victim has ingested or inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical advice. Use personal protective equipment
<b>NOTES TO PHYSICIAN</b>	Treat symptomatically
<b>24 HOURS EMERGENCY: CALL CHEMTREC 1-800-424-9300 OR 703-527-3887</b>	

### SECTION 5 : FIRE-FIGHTING MEASURES

<b>FLASH POINT (COC)</b>	238 °C
<b>AUTOIGNITION TEMPERATURE ( °C)</b>	368 °C (estimated)
<b>SUITABLE EXTINGUISHING MEDIA</b>	Foam, Dry chemical and CO <sup>2</sup>
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Normal combustion products, CO and CO <sub>2</sub> .
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Do not enter confined fire space without adequate protective clothing and an approved positive self-contained breathing apparatus. Use water to cool fire exposed containers



## SECTION 6 : ACCIDENTAL RELEASE MEASURES

<b>SPILL AND LEAK PROCEDURES</b>	Except in case of small spillages. The feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. If required, notify relevant authorities according to all applicable regulations. Evacuate non-essential personnel. For personal protection see section 8. Stop or contain leak at the source, if safe to do so. In case of large spillages, alert occupants in downwind areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)
<b>ADVICE FOR NON-EMERGENCY PERSONNEL</b>	Do not touch or walk through spilled material. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)
<b>ADVICE FOR EMERGENCY PERSONNEL</b>	Take all appropriate steps to avoid fire, explosion and inhalation hazards to the rescuers including the use of breathing apparatus. In case of small spillages: normal working clothes are usually adequate. Large spillages: Chemical resistant clothing, apron. Work gloves (preferably gauntlets) providing adequate chemical resistance. Remarks: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Work helmet, safety shoes or boots. Goggles and/or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection not normally required in normal conditions. A half or full-face respirator with filter(s) for organic vapors (and when applicable: for H2S would be recommended otherwise. A Self-Contained Breathing Apparatus (SCBA) can be used according to the extent oxygen deficiency is possible
<b>ENVIRONMENTAL PRECAUTIONS</b>	Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. The product should not be allowed to enter drains, water courses or the soil.
<b>METHODS AND MATERIALS FOR CONTAINEMENT AND CLEANING UP</b>	Dam up. Ground and bond containers when transferring 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 clean non-sparking tools to collect absorbed material.

## SECTION 7 : HANDLING AND STORAGE

<b>STORAGE AND HANDLING</b>	Use appropriate equipment (refer to section 8) whenever manipulating this product. Keep container in a cool and well-ventilated area. Do not enter storage areas and confined spaces unless adequately ventilated. Keep container tightly closed and sealed until ready for use. Store and use away from heat, sparks, open flame or any other ignition source
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## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS	
   <p><b>MINERAL OIL MIST</b></p>	<p>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></p>

<b>VENTILATION</b>	Mechanical ventilation is recommended.
<b>RESPIRATORY PROTECTION</b>	If mist present, chemical cartridge respirator is recommended.
<b>GLOVES</b>	Resistant gloves (Viton, Nitrile, Neoprene) are recommended when handling this material.
<b>EYE PROTECTION</b>	Chemical safety goggles are recommended.
<b>BODY</b>	Flame retardant clothing is required.
<b>OTHER PROTECTION</b>	In confined spaces or where the risk of skin exposure is higher, resistant clothing or apron should be worn. Flame retardant clothing is required. Security boots.

## SECTION 9 : PHYSICAL DATA

<b>PHYSICAL STATE AT 25°C</b>	Liquid.
<b>APPEARANCE AND ODOR</b>	Bright with characteristic odor.
<b>pH</b>	Not available.
<b>BOILING POINT</b>	Not available.
<b>FLASH POINT (COC)</b>	238°C
<b>POUR POINT</b>	-15°C
<b>EVAPORATION RATE</b>	Negligible
<b>LOWER FLAMMABILITY LIMITS</b>	Not available.
<b>UPPER FLAMMABILITY LIMITS</b>	Not available.
<b>DENSITY</b>	0,860 (g/cm <sup>3</sup> at 15 °C)
<b>VAPOR PRESSURE</b>	< 0.0001 (mm Hg at 20 °C)
<b>VISCOSITY</b>	51.2 - 7.08 (cSt at 40 °C)
<b>SOLUBILITY IN WATER</b>	Negligible
<b>AUTOIGNITION TEMPERATURE</b>	368 °C (estimated)



## SECTION 10 : STABILITY AND REACTIVITY

<b>STABILITY</b>	Stable in normal condition of use and storage.
<b>POSSIBILITY OF HAZARD REACTIONS</b>	Will not occur
<b>CONDITIONS TO AVOID</b>	Avoid excessive heat, open flames and formation of oil mist.
<b>PRODUCTS TO AVOID</b>	Oxidizing agents, strong acids and bases.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Normal combustion products and CO

## SECTION 11 : TOXICOLOGICAL INFORMATION

SPECIES	DL <sub>50</sub> ORAL	DL <sub>50</sub> DERMAL	CL <sub>50</sub> BY INHALATION	HOUR
Rat	> 30 g/kg	> 8000 mg/kg	Not available	-/-

<b>CHRONIC EFFECTS ON HUMANS</b>	Minimally toxic. Negligible hazard at ambient/normal temperature. This product should not be harmful through inhalation. Prolonged exposure to high vapor concentration of this product can cause headache, dizziness and nausea and in the case of hot mist, it can cause an irritation to the respiratory passages
<b>CARCINOGENIC EFFECTS</b>	This product has no carcinogenic effects known
<b>TERATOGENICITY/MUTAGENICITY</b>	This product has no teratogenic or mutagenic effects known
<b>OTHER TOXIC EFFECTS ON HUMANS</b>	Repeated exposure may cause skin dryness and cracking.

## SECTION 12 : ECOLOGICAL INFORMATION

<b>ENVIRONMENTAL EFFECTS</b>	Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.
<b>BIODEGRADABILITY</b>	NOT READILY BIODEGRADABLE.
<b>MOBILITY</b>	<b>Soil:</b> Given its physical and chemical characteristics, the product generally shows low soil mobility. <b>Air:</b> Loss by evaporation is limited. <b>Water:</b> Insoluble. The product will spread on the surface of the water.

## SECTION 13 : DISPOSAL CONSIDERATIONS

<b>WASTE DISPOSAL METHODS</b>	Consult relevant local authorities. Reclaim or dispose of at a licensed waste disposal company. Incinerate with approval of appropriate local authority.
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## SECTION 14 : TRANSPORTATION INFORMATION

<b>TRANSPORTATION IN CANADA (TDG)</b>		Standard Heat transfer Oil Not Restricted
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<b>SHIPPING NAME</b>	None
<b>UN NUMBER</b>	
<b>CLASS DESCRIPTION</b>	

**Other agencies:**

<b>USDOT</b>	Not regulated by that agency as a hazardous material.
<b>IMO/IMDG (SEA)</b>	Not regulated as a hazardous material for maritime transport.
<b>IATA (AIR)</b>	Not regulated as a hazardous material for air transport.
<b>ADNR (INLAND WATERWAY TRANSPORT)</b>	Not regulated by that agency as a hazardous material.
<b>ADR/RID</b>	Not regulated as a hazardous material for land transport.

## SECTION 15 : REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products. Regulations (CPR) and the MSDS contains all the information required by the CPR.

**THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.**

**DSL/NDSL Status:** This product, or all components, are listed on the Domestic Substances List, as required under the Canadian Environmental Protection Act. This product and/or all components are listed on the U.S. EPA TSCA Inventory.

**Other Regulatory Status:** No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15 mg/L

### INTERNATIONAL REGULATIONS

**U.S. FEDERAL REGULATIONS:** TSCA 8(b) inventory: All components are listed.

<b>RISK PHRASES</b>	This product is not classified according to EU legislation
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<b>SARA 302/304/311/312 EXTREMELY HAZARDOUS SUBSTANCES</b>	To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.
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## SECTION 15 : REGULATORY INFORMATION (CONT'D)

<b>SARA 302/304 EMERGENCY PLANNING AND NOTIFICATION</b>	To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.
<b>SARA 302/304/311/312 HAZARDOUS CHEMICALS</b>	Distillates (petroleum), hydrotreated light
<b>SARA 311/312 MSDS DISTRIBUTION - CHEMICAL INVENTORY - HAZARD IDENTIFICATION</b>	Distillates (petroleum), hydrotreated light: Delayed (chronic) health hazard
<b>SARA 313</b>	This product contains no chemicals in excess of the applicable minimum concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Table 372.65).

- **Clean Water Act (CWA) 307:** To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.
- **Clean Water Act (CWA) 311:** To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.
- **Clean Air Act (CAA) 112 accidental release prevention:** To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.
- **Clean Air Act (CAA) 112 regulated flammable substances:** To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.
- **Clean Air Act (CAA) 112 regulated toxic substances:** To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

### STATES REGULATIONS

To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

**California Proposition 65:** To the best of our knowledge, there are no Proposition 65 chemicals present in this product at levels that would require warning under the California Safe Drinking Water and Toxic Enforcement Act.

### OTHER INTERNATIONAL LISTS

<b>AUSTRALIA INVENTORY (AICS)</b>	This material is listed or exempted
<b>CHINA INVENTORY (IECSC)</b>	
<b>EUROPE (EINECS/ELINCS/NLP)</b>	
<b>JAPAN INVENTORY</b>	Not determined
<b>KOREA INVENTORY (KECL)</b>	This material is listed or exempted
<b>NEW ZEALAND INVENTORY OF CHEMICALS (NZIOC)</b>	
<b>PHILIPPINES INVENTORY (PICCS)</b>	



**SECTION 16 : ADDITIONAL INFORMATION**

<b>LABEL REQUIREMENTS</b>	None (based on WHMIS)
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Other Hazardous System Classification: According to the **NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)** and **Hazardous Materials Identification System (HMIS, USA)**:

NFPA		HMIS	
0	<b>HEALTH</b>	0	NO SIGNIFICANT RISK
1	<b>FLAMMABILITY</b>	1	PRESENT A WEAK RISK
0	<b>REACTIVITY</b>	0	NO SIGNIFICANT RISK
	<b>INDIVIDUAL PROTECTION</b>	<b>B</b>	Eye protection and gloves are recommended

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<b>REVISED ON:</b>	November 2nd, by Maria Cristina Martinez
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