

MATERIAL SAFETY DATA SHEET

Effective Date 02/02/02

SECTION 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME POWERTRON L.L.C.	EMERGENCY TELEPHONE NUMBER 713-785-6800
ADDRESS 2401 FOUNTAINVIEW SUITE 416 HOUSTON, TX 77057	E-MAIL POWER-TRON.COM
TRADE AND PRODUCT NAME PERMAFROST	CHEMICAL NAME THERMO-CONDUCTIVE COMPOSITION
CHEMICAL FAMILY NONYLATED PHENYLAMINE DERIVATIVES, ESTERS AND PROPRIETARY COMPOUNDS	APPLICATION PROPRIETARY HYDROCARBON BASED THERMO CONDUCTIVE FORMULATION FOR HVAC PERFORMANCE USE

SECTION II - HAZARDOUS COMPONENTS OF MIXTURES

THIS PRODUCT CONTAINS NO HAZARDOUS COMPONENTS ALL CHEMICALS ARE LISTED UNDER SERCLA AND ARE ALL LISTED AS NON HAZARDOUS THE PRECISE COMPOSITION OF THIS PRODUCT IS PROPRIETARY INFORMATION. A MORE DETAILED DISCLOSURE MAY BE PROVIDED BY POWERTRON TO QUALIFIED PERSONNEL AS PRIVILEGED INFORMATION

SECTION III – TYPICAL PHYSICAL DATA

APPEARANCE TRANSPARENT BLUE/GREEN	ODOR MILD CHARACTERISTIC ODOUR
BOILING POINT 370°F	SPECIFIC GRAVITY 0.96
VAPOR PRESSURE	PERCENT VOLATILE SIMILAR TO HYDROCARBONS
VAPOR DENSITY	EVAPORATION RATE NEGLIGIBLE

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	LEL	UEL
370°F (CLEVELAND OPEN CUP)		

FIRE EXTINGUISHING MEDIA

CO2, DRY CHEMICAL, FOAM, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES

FOR FIRES INVOLVING THIS MATERIAL, DO NOT ENTER ANY CONFINED SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND PROTECTION HAZARD

DO NOT HEAT CONTAINER, REPLACE CAP OR BUNG, EMPTY CONTAINER MAY CONTAIN MATERIAL RESIDUE, WHICH MAY IGNITE WITH EXPLOSIVE VIOLENCE IF HEATED SUFFICIENTLY

HAZARDOUS PRODUCTS OF COMBUSTION

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIAL OR PROCESS. SUCH INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO BE SATISFIED WITH THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR THE PARTICULAR REASON AND APPLICATION. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION NOR DO WE OFFER ANY WARRANTY AGAINST IMPROPER USE AND OR MISUSE OF THE PRODUCT.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	<u>OSHA</u> NO OSHA EXPOSURE STANDARDS OR THRESHOLD LIMIT VALUES ESTABLISHED	<u>ACGIH</u>	<u>OTHER</u>
EFFECTS OF OVEREXPOSURE	<u>ACUTE</u> MAY PRODUCE MILD EYE, SKIN AND RESPIRATORY IRRITATION WITH PROLONGED CONTACT	<u>CHRONIC</u>	<u>OTHER</u>

EMERGENCY AND FIRST AID PROCEDURES

WASH EYES WITH FRESH WATER FOR AT LEAST 15 MINUTES AND SEE DOCTOR. WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF RESPIRATORY DISCOMFORT OCCURS, MOVE PERSON TO FRESH AIR. IF INGESTED CALL E DOCTOR IMMEDIATELY

SECTION VI – ACTIVITY DATA

STABILITY	UNSTABLE	STABLE YES	CONDITIONS TO AVOID DO NOT EXPOSE TO OPEN FLAMES
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HAZARDOUS DECOMPOSITION WILL NOT OCCUR UNDER NORMAL CIRCUMSTANCES. AVOID OXIDIZERS AND CROSS CONTAMINATION

SECTION VII – SPILLS OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
CLEAN UP SPILLS WITH ABSORBENT CLAY, DIATOMACEOUS EARTH OR OTHER SUITABLE MATERIAL AND REMOVE TO APPROVED WASTE DISPOSAL AREA

WASTE DISPOSAL

PACKAGE, STORE, TRANSPORT AND DISPOSE OF ALL CLEAN-UP MATERIAL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL HEALTH ENVIRONMENTAL REGULATIONS.

SECTION VIII – PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

NOT NEEDED IN OPEN, UNCONFINED AREA

VENTILATION IN CINFINED AREA	LOCAL EXHAUST IN CONFINED ARES	MECHANICAL	SPECIAL NONE
PROTECTIVE GLOVE FOR PROLONGED EXPOSURES	EYE PROTECTION DURING MATERIAL TRANSFER	OTHER	OTHER PROTECTIVE EQUIPMENT COMMON SENSE

SECTION IX- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP CONTAINER AWAY FROM HEAT SOURCES AND TIGHTLY CLOSED AT ALL TIMES. KEEP AWAY FROM MOISTURE AND OTHE CONTAMINANTS. DO NOT CROSS-CONTAMINATE.