

0665

Date: APRIL 4, 2006

No. Pages: 4

1

SECTION I - IDENTIFICATION OF PRODUCT**Manufacturer's Name**

HELMITIN INC.

Emergency Tel No

(416) 239-3105

Address

99 SHORNCLIFFE ROAD, TORONTO, ONTARIO M8Z 5K7

Trade Name And Synonyms

HELMITIN SOLVENT 0665

Chemical Name And Synonyms

TOLUENE, ALIPHATIC HYDROCARBON AND KETONE BLEND

Chemical Family

PETROLEUM HYDROCARBON AND KETONE SOLVENTS

Molecular Formula

NOT APPLICABLE

SECTION II - HAZARDOUS COMPONENTS OF MIXTURE

Component -----	% --	Threshold Limit Value	Comments -----
TOLUENE	30-60	50 ppm	CAS #108-88-3 LD50: >2g/Kg ORAL/RAT
PETROLEUM NAPHTHA	15-40	100 ppm	CAS #64742-49-0
HEXANES	10-30	50 ppm	CAS #110-54-3 LD50: 28.7g/Kg ORAL/RAT
METHYL ETHYL KETONE	1-5	200 ppm	CAS #78-93-3 LD50:>4.0g/Kg ORAL/RAT
ACETONE	1-5	500 ppm	CAS#67-64-1 LD50: 5.8 g/Kg ORAL/RAT TLVs published by ACGIH in 2005

SECTION III - PHYSICAL DATA**Appearance And Odour**

CLEAR COLOURLESS LIQUID, MILD SOLVENT ODOUR

Boiling Point / **pH**

88°C / NOT APPLICABLE

Specific Gravity (Water=1)

0.765

Percent Volatile (By Weight)

100

Vapour Pressure (mm Of Mercury)

80 mm of Hg at 20°C

Vapour Density (Air = 1)

3.8

Evaporation Rate (Butyl Acetate = 1)

4.6

Evaporation Rate (Ethyl Ether = 1)

SLOWER THAN ETHYL ETHER

Solubility In Water

NOT SOLUBLE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA**Flash Point (Specify Method)**

-18°C TAG CLOSED CUP

Flammable Limits (Percent By Volume)**Lower****Upper**

1.1

12.6

Fire-Extinguishing Media

FOAM, DRY CHEMICAL OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE; THEREFORE USE FOG NOZZLE.

Special Fire-Fighting Procedures

FIRE FIGHTERS CLOSE ENOUGH TO BE IN CONTACT WITH FUMES SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire And Explosion Hazards

TOXIC GASES MAY BE FORMED. VAPOURS MAY CAUSE FLASH FIRE OR IGNITE EXPLOSIVELY.

SECTION V - HEALTH HAZARD DATA**Threshold Limit Value**

50 ppm FOR TOLUENE, 50 ppm FOR HEXANES, 100 ppm FOR PETROLEUM NAPHTHA, 200 ppm FOR METHYL ETHYL KETONE AND 500 ppm FOR ACETONE.

Effects Of Overexposure

IRRITATION OF EYES, NOSE AND THROAT, DIZZINESS, IMPAIRMENT OF CO-ORDINATION. AVOID DIRECT CONTACT AS IT MAY CAUSE SKIN DERMATITIS IN SENSITIVE PERSONS.

CARCINOGENICITY DATA: NO HUMAN INFORMATION IS AVAILABLE.REPRODUCTIVE EFFECTS: NO HUMAN INFORMATION IS AVAILABLE.TERATOGENIC EFFECTS: TOLUENE IS A DEVELOPMENTAL TOXICITY HAZARD, BASED ON INFORMATION OBTAINED FROM ANIMAL STUDIES. FETOTOXICITY (REDUCED FETAL WEIGHT), BEHAVIOURAL EFFECTS (EFFECTS ON LEARNING AND MEMORY) AND HEARING LOSS (IN MALES) HAVE BEEN OBSERVED IN THE OFFSPRING OF RATS EXPOSED BY INHALATION TO 1200 OR 1800 ppm OF TOLUENE.MUTAGENIC EFFECTS: NO HUMAN INFORMATION IS AVAILABLE.SYNERGISTIC EFFECTS: NO HUMAN INFORMATION IS AVAILABLE.**Emergency And First Aid Procedures**EYES: FLUSH WITH FLOWING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.SKIN: REMOVE CONTAMINATED CLOTHING IMMEDIATELY. WASH AFFECTED AREA WITH SOAP AND WATER.INGESTION: CONSULT A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.INHALATION: REMOVE VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN IF NECESSARY.**SECTION VI - REACTIVITY DATA****Stability Stable / Unstable**

XX

Conditions To Avoid

AVOID SPARKS, EXCESSIVE HEAT AND OPEN FLAME SOURCES.

Incompatibility

HAZARDOUS REACTIONS MAY OCCUR ON CONTACT WITH STRONG OXIDIZING AGENTS, ACIDS, ALKALIES.

Hazardous Decomposition Products

MATERIAL MAY EMIT TOXIC FUMES AT DECOMPOSITION, INCLUDING CARBON MONOXIDE AND CARBON DIOXIDE.

SECTION VI - REACTIVITY DATA (cont'd)

Hazardous Polymerization	May Occur	Will Not Occur
		XX

Conditions To Avoid

NOT APPLICABLE

SECTION VII - PREVENTATIVE MEASURES**Steps To Be Taken In Case Material Is Released Or Spilled**

ELIMINATE ALL SOURCES OF IGNITION. TURN OFF ALL ELECTRICAL MOTORS. DIKE LARGE SPILLS AND DUMP TO SALVAGE TANKS OR INCINERATOR. KEEP PEOPLE AWAY. COVER WITH ABSORBENT MATERIAL, i.e. SAND, CLAY OR VERMICULITE, AND SHOVEL INTO SUITABLE CONTAINERS WHICH CAN BE CLOSED TIGHTLY. INCINERATE UNDER CONTROLLED CONDITIONS. NOTIFY AUTHORITIES IN THE EVENT OF A MAJOR SPILL AS REQUIRED BY LOCAL LAWS. WEAR ADEQUATE RESPIRATORY PROTECTION.

Waste Disposal Method

CHEMICAL INCINERATION. DO NOT DISPOSE OF MATERIAL BY MEANS OF DRAIN OR SEWER SYSTEM. COMPLY WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION**Respiratory Protection (Specify Type)**

ORGANIC VAPOUR TYPE RESPIRATOR IF VENTILATION IS INADEQUATE. PLEASE REFER TO LOCAL SAFETY SUPPLY FOR APPROPRIATE TYPE.

Ventilation - Local Exhaust

USE WITH ADEQUATE VENTILATION - EXPLOSION PROOF TYPE RECOMMENDED

Ventilation - Mechanical (General)

MAINTAIN SOLVENT CONCENTRATION BELOW TLV

Protective Gloves

IMPERMEABLE PLASTIC OR RUBBER CHEMICAL RESISTANT GLOVES

Eye Protection

SAFETY GOGGLES, GLASSES OR FACE SHIELD

Other Protective Equipment

IMPERVIOUS CHEMICAL RESISTANT APRONS AND BOOTS; EYE BATH AND SAFETY SHOWER SHOULD BE AVAILABLE.

SECTION IX - SPECIAL PRECAUTIONS**Precautions To Be Taken In Handling And Storing**

EXTREMELY FLAMMABLE. VAPOURS MAY CAUSE FLASH FIRE. USE WITH ADEQUATE VENTILATION. AVOID PROLONGED BREATHING OF VAPOUR. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. KEEP VAPOUR CONCENTRATION BELOW TLV.

Other Precautions

KEEP AWAY FROM OPEN FLAME, SPARKS AND EXCESSIVE HEAT. PREVENT ACCUMULATION OF STATIC ELECTRICITY ON HANDLING EQUIPMENT. HARMFUL OR FATAL IF SWALLOWED. NOT TO BE TAKEN INTERNALLY.

SECTION X - DATE AND SOURCE OF INFORMATION

Date	Prepared by:	Revision No.
APRIL 4, 2006	HELMITIN INC. LABORATORY (416) 239-3105	(TL) 1

HAZARDOUS INFORMATION FOR TRANSPORTATION OF DANGEROUS GOODS
INFORMATION DE DANGER DU TRANSPORT MARCHANDISES DANGEREUSES

0665

In Case Of Emergency Call Collect: (613) 996-6666 Canutec
En Cas D'Urgence Appelez A Frais Virés: (613) 996-6666 Canutec

Product Produit	Shipping Name Appelation Reglementaire	Class Classe	UN Code Numero D'Identification	Packing Groupe	Flash Point Point D'Eclair
0665	FLAMMABLE LIQUID N.O.S. (TOLUENE)	3	UN1993	II	-18°C

HAZARD GUIDE (ERG#) 128

WHMIS INFORMATION

INFORMATION SIMDUT

CLASS B, DIVISION 2 - FLAMMABLE LIQUID
CLASS D, DIVISION 2, SUBDIVISION A - VERY TOXIC
CLASS D, DIVISION 2, SUBDIVISION B - TOXIC, EYE AND SKIN IRRITANT