

MATERIAL SAFETY DATA SHEET
REDUCER

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SLUYTER COMPANY LTD.

375 Steelcase Road East
Markham, Ontario L3R 1G3 Canada
Tel (905) 475-6011 Fax (905) 475-3119

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER-----SLUYTER COMPANY LTD.
375 Steelcase Road East
Markham, Ontario L3R 1G3
Canada
Tel (905) 475-6011
PRODUCT NAME-----REDUCER
PRODUCT USES-----General purpose solvent in footwear trade.
CHEMICAL FAMILY-----Solvent Blend.

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS / %	CAS / TLV	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
TOLUENE			
60 - 100	108-88-3 200 ppm	>2 g/kg Skin (Rabbit)	8000 ppm 8 hours Inhalation (Rat)

SECTION 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:-----
SKIN CONTACT-----Can cause moderate skin irritation,
defatting and dermatitis.
SKIN ABSORPTION-----Not applicable.
INHALATION-----See "EFFECTS OF CHRONIC EXPOSURE", below.
INHALATION CHRONIC-----Can result in dizziness and irritation.
INGESTION-----Aspiration of product into lungs can cause
chemical pneumonitis which can be fatal.
EYE CONTACT-----Contains materials that are moderately
irritating to the eyes.
EFFECTS OF ACUTE EXPOSURE-----Refer to "ROUTE ENTRY" section.
EFFECTS OF CHRONIC EXPOSURE-----May cause damage to the central nervous
system. May cause nausea, headache,
dizziness and drowsiness. Possible damage
to liver and kidneys.

SECTION 04: FIRST AID MEASURES

EYE CONTACT-----Check for and remove any contact lenses.
Immediately flush with water for a minimum
of 20 minutes and get medical attention.
SKIN CONTACT-----Remove contaminated clothing. Wash
affected area with water and soap. Seek
medical attention if irritation occurs or
persists.
INHALATION-----Remove patient to fresh air. If not
breathing, trained personnel should
administer artificial respiration. Get
medical attention.
INGESTION-----Get immediate medical attention.
ADDITIONAL INFORMATION-----Contact your local poison control centre.

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SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY-----Flammable.
UNDER WHAT CONDITIONS-----Flammable liquid. Fire hazard when exposed to heat, flame or temperatures above the flash point. Vapours are heavier than air and may travel to a source of ignition and flash-back.
SPECIAL PROCEDURES-----A self-contained breathing apparatus is required for fire fighting personnel. Use water spray to cool fire exposed surfaces and to protect personnel.
FLASH POINT (METHOD)-----5°C TAG Closed Cup.
AUTO IGNITION TEMPERATURE-----480°C.
UPPER FLAMMABLE LIMIT (% VOL)-----7.00.
LOWER FLAMMABLE LIMIT (% VOL)-----1.21.
EXTINGUISHING MEDIA-----Alcohol foam, CO2 or dry chemical.
HAZARDOUS COMBUSTION PRODUCTS-----Oxides of Carbon (CO and CO2).
SENSITIVITY TO MECHANICAL-----Not available.
IMPACT
SENSITIVITY TO STATIC-----May be sensitive.
DISCHARGE

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL-----Ventilate. Remove all sources of ignition, open flames, sparks and heaters. Wear protective gear (See SECTION 8). Small spills can be wiped. Large spills must be collected for disposal. Use a non-combustible absorbent inorganic material. Prevent run-off into drains, sewers and other waterways. CAUTION: Surfaces may be slippery after use, clean thoroughly with a mineral spirits based cleaner.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES-----Avoid skin and eye contact. Avoid breathing vapours. Use adequate ventilation. Keep away from heat, sparks and open flame.
STORAGE NEEDS-----Store in a cool area, away from all sources of heat and ignition. Store in a dry, well ventilated area. Do NOT store above 49°C

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:-----
EYE/TYPE-----Safety glasses.
RESPIRATORY/TYPE-----If used indoors on a continuous basis or if the TLV is exceeded, the use of a cartridge type respirator (NIOSH/MSHA approved) is recommended.
GLOVES/ TYPE-----Wear impervious gloves (Neoprene or Rubber).
CLOTHING/TYPE-----Not applicable.
FOOTWEAR/TYPE-----Not applicable.
OTHER/TYPE-----Eye bath and safety shower.
VENTILATION REQUIREMENTS-----Natural or mechanical (Explosion Proof) ventilation to keep vapour levels well below the TLV.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE-----Liquid.
ODOUR-----Strong solvent odour.
SPECIFIC GRAVITY-----0.86 - 0.87.
ODOUR THRESHOLD (ppm)-----Not available.
VAPOUR PRESSURE-----22 mmHg @ 20°C.
VAPOUR DENSITY (AIR=1)-----3.00.
EVAPORATION RATE-----2.20 (NBUAC = 1).
BOILING POINT (deg C)-----110°C.
pH-----Not applicable.
SOLUBILITY IN WATER (% W/W)-----Negligible.
COEFFICIENT OF WATER\OIL-----Not available.
DISTRIBUTION
VOLATILES (%)-----100%.
FREEZING POINT----- - 90°C.
MELTING POINT (deg C)-----Not applicable.
MOLECULAR WEIGHT-----Not applicable.

SECTION 10: STABILITY AND REACTIVITY

INCOMPATIBILITY-----Strong acids and strong bases. Oxidizing agents.
REACTIVITY CONDITIONS-----Excessive heat, sparks and open flame.
HAZARDOUS PRODUCTS OF DECOMPOSITION-----Oxides of Carbon (CO and CO2). Toxic fumes. Smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL-----See "HAZARDOUS INGREDIENTS" in SECTION 2.
IRRITANCY OF MATERIAL-----Irritant upon prolonged exposure.
SENSITIZING CAPABILITY OF MATERIAL-----Not available.
CARCINOGENICITY OF MATERIAL-----No information is available and no adverse carcinogenic effects are anticipated.
TERATOGENICITY-----No information is available and no adverse teratogenicity effects are anticipated.
MUTAGENICITY-----No information is available and no adverse mutagenicity effects are anticipated.
REPRODUCTIVE EFFECTS-----Not available.
SYNERGISTIC MATERIALS-----Not available.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL-----Not available. Can be dangerous if allowed to enter drinking water intakes. Product has an unaesthetic appearance and can be a nuisance. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds and rivers.
BIODEGRADABILITY-----Not available. The solvent portion of this product is biodegradable and vaporizes rapidly.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL-----Spilled material and water rinses are classified as chemical waste. To be disposed of in accordance with current Local, Provincial and Federal regulations.

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SECTION 14: TRANSPORT INFORMATION

T.D.G. CLASSIFICATION-----

- (1)-----(1p) In containers up to 1 litre -
shipped as CONSUMER COMMODITY. If the
shipment exceeds 500 kg in weight, shipped
as CONSUMER COMMODITY - TOLUENE CLASS 3
(9.2).
- (2)----- (2p) In containers over 1 litre -
TOLUENE CLASS 3 (9.2) UN1294 P.G. II.

SECTION 15: REGULATORY INFORMATION

CPR COMPLIANCE-----This product has been classified in
accordance with the hazard criteria of the
CPR and the MSDS contains all the
information required by the CPR.

WHMIS CLASSIFICATION-----Class B Div.2 Class D Div.2 Subdiv.B.

SECTION 16: OTHER INFORMATION

IMPORTANT:-----The information on this Material Safety
Data Sheet is furnished without warranty,
expressed or implied. All the information
appearing herein is based upon data
obtained from manufacturers and/or
recognized technical sources. While the
information is believed to be accurate, we
make no representations for the accuracy
or sufficiency.