



Material Safety Data Sheet

DASCO CLEAR 586

D.A. STUART INC.

43 Upton Road
Scarborough, Ontario
M1L 2C1

DATE PREPARED:..... September 27, 1996

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REVISION NUMBER: 7

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME..... D.A. Stuart Inc.
MANUFACTURER'S ADDRESS. 43 Upton Road, Scarborough, Ontario, M1L 2C1
SUPPLIER'S NAME..... As manufacturer
SUPPLIER'S ADDRESS..... As manufacturer
PRODUCT NAME..... DASCO CLEAR 586
PRODUCT NUMBER:..... 04125.66.1
PRODUCT USE..... Metalworking coolant
CHEMTREC:..... 1-800-424-9300

EMERGENCY PHONE NUMBER: *CANUTEC*: 1-613-996-6666 (24 HOURS)

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS	PERCENT	CAS-NUMBER	LD(50)	LC(50)
Hexylene glycol	1-5%	107-41-5	3700 mg/kg (Rat-Oral)	n.av.
Diglycolamine	7-13%	929-06-6	2560 mg/kg (Rat-Oral)	n.av.
Amine borate	1-5%	Mixture	n.av.	n.av.
Triethanolamine	1-5%	102-71-6	4920 mg/kg (Rat-Oral)	n.av.

SECTION III - HAZARDS IDENTIFICATION

ROUTES OF ENTRY

SKIN CONTACT..... Concentrate may cause irritation.
SKIN ABSORPTION..... No acute effects expected.
EYE..... Concentrate will cause irritation.
INHALATION..... Concentrate may be mildly irritating.
INGESTION..... Do not ingest. May be harmful if swallowed.

ACUTE OVER EXPOSURE EFFECTS.... Moderate eye irritation. Possible skin irritation.

CHRONIC OVER EXPOSURE EFFECTS Prolonged or repeated exposure may cause eye and skin irritation. Repeated inhalation of mists may cause respiratory problems.



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EXPOSURE LIMITS..... Hexylene glycol: 120 mg/m³
IRRITANCY OF PRODUCT..... Classified as an irritant under WHMIS.
SENSITIZATION TO MATERIAL..... Not known to be a sensitizer.

SECTION IV - FIRST AID MEASURES

SPECIFIC FIRST AID PROCEDURES..... **Eyes:** Rinse with water for at least 15 minutes. Seek medical attention if irritation persists.
Skin: Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention if irritation persists.
Inhalation: Remove to fresh air if ill effects experienced. Seek medical attention if necessary.
Ingestion: Rinse mouth immediately. Do not induce vomiting unless advised by a physician. Seek immediate medical attention. NB: Never give anything by mouth to an unconscious person.

SECTION V - FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY..... n.ap.
FLASHPOINT AND METHOD..... COC: No flash
EXTINGUISHING MEDIA..... n.ap.
UNUSUAL FIRE AND EXPLOSION
HAZARDS..... n.ap.
UPPER EXPLOSION LIMIT (% BY VOL)..... n.ap.
LOWER EXPLOSION LIMIT (% BY VOL)... n.ap.
AUTO-IGNITION TEMPERATURE..... n.ap.
FLAMMABILITY CLASSIFICATION..... Not classified as a flammable substance under WHMIS.
HAZARDOUS COMBUSTION PRODUCTS.... n.ap.
EXPLOSION DATA..... n.ap.
SENSITIVITY TO STATIC DISCHARGE..... n.ap.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILL..... Workers not wearing proper personal protective equipment as stated in Section VIII should be excluded from the spill area. Contain spill and use an inert absorbent (e.g. sand or clay). Place waste in appropriate,



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labeled containers. Wash area with detergent or water.

SECTION VII - HANDLING AND STORAGE

HANDLING PROCEDURES..... Use good hygiene procedures.
STORAGE REQUIREMENTS..... Keep containers closed away from extreme heat and open flame. Do not freeze.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

SPECIFIC ENGINEERING CONTROLS... Dilution ventilation is adequate at room temperature. At high temperature or if misting is expected, exhaust ventilation is recommended.

PERSONAL PROTECTIVE EQUIPMENT Safety glasses with side-shields. Use chemical safety goggles and apron if splashing may occur. Impervious rubber gloves. If exposure limits are exceeded, use NIOSH approved respirator (R or P95) may be used for any particulate contaminant where airborne mists exceed the NIOSH REL of 5 mg/m³.

SECTION IX - PHYSICAL DATA AND CHEMICAL PROPERTIES

PHYSICAL STATE..... Liquid
APPEARANCE/ODOR..... Transparent, orange, slight odour
ODOUR THRESHOLD..... n.av.
BOILING POINT..... >100°C
VAPOUR PRESSURE..... >1 @ 20°C
VAPOUR DENSITY..... >1
EVAPORATION RATE..... n.av.
FREEZING POINT..... <0°C
SPECIFIC GRAVITY..... 1.07
pH..... @ 5%: 9.0
DENSITY (g/mL)..... 1.07
COEFFICIENT OF WATER/OIL DISTRIBUTION..... n.av.

SECTION X – STABILITY AND REACTIVITY DATA

CHEMICAL STABILITY..... Stable
INCOMPATIBILITY..... CONTAINS AMINES! Do not add



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nitrosating agents (e.g. sodium nitrite) to this product because suspected cancer-causing nitrosamines may be formed. Strong acids and strong oxidizing agents.
Prolonged contact with the above

CONDITIONS OF REACTIVITY.....

HAZARDOUS DECOMPOSITION PRODUCTS..... None

SECTION XI – TOXICOLOGICAL INFORMATION

CARCINOGENICITY..... No ingredients are listed as carcinogenic under OSHA, NTP and IARC.

TERATOGENICITY AND EMBRYOTOXICITY..... None known

TOXICOLOGICALLY SYNERGISTIC PRODUCTS..... None known

MUTAGENICITY..... None known

REPRODUCTIVE TOXICITY..... None known

SECTION XII – ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

SECTION XIII - DISPOSAL CONSIDERATIONS

Follow all local and federal government regulations. The disposal method and manner practices should be acceptable to good waste management practices and follow applicable codes and regulations.

SECTION XIV - TRANSPORTATION DATA

SPECIAL SHIPPING INFORMATION..... Not regulated under TDG.

CAUTIONARY LABEL STATEMENT..... CAUTION: Causes eye and skin irritation.

SECTION XV - REGULATORY INFORMATION

WHMIS CLASSIFICATION..... D2B

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



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SECTION XVI – OTHER INFORMATION

PREPARED BY..... Research and Development Laboratory
PHONE NUMBER OF PREPARER..... (416) 757-3226

ABBREVIATIONS

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS.....Chemical Abstracts Service
CC/TCC.....(Tag) Closed Cup
COC.....Cleveland Open Cup
IARC.....International Agency for Research on Cancer
LC₅₀.....Lethal Concentration 50
LD₅₀.....Lethal Dose 50
n.ap.....Not Applicable
n.av.....Not Available
NFPA.....National Fire Protection Association
NOSH.....National Institute of Occupational Safety and Health
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
STEL.....Short Term Exposure Limit
TDG.....Transportation of Dangerous Goods
TLV.....Threshold Limit Value
TWA.....Time Weighted Average
WHMIS.....Workplace Hazardous Material Information Systems

DISCLAIMER

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