

DRUMMOND
AMERICAN
Material Safety Data Sheet

Revision Date
01-Mar-2007

1. CHEMICAL PRODUCT AND COMPANY
INFORMATION

Product code
Product name
Recommended Use
Supplier
Emergency telephone number

DN6180
CLEARFLEX
Adhesive / Sealant
Drummond American Corporation
800 Corporate Center Parkway
Vernon Hills, IL 60061
(847) 913-9313
(888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Flammable, Irritant
Aggravated Medical Conditions
None Known
Principal Routes of Exposure
Eyes, Skin, Inhalation, Ingestion
Potential health effects

Eyes
Skin
Inhalation
Ingestion
Hearing

Irritation, Blurred vision, Corneal damage, Tearing.
Prolonged skin contact may irritate the skin and produce dermatitis.
May cause irritation of respiratory tract. May cause irritation to the mucous membranes. Fatigue.
Drowsiness, Nausea, Headaches, Loss of coordination, Breathing difficulty, Central nervous system effects. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Central nervous system effects. Liver abnormalities. Kidney damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Light Aliphatic Solvent	64742-88-8	35-54
Toluene	108-88-3	9-10

4. FIRST AID MEASURES

Eye contact
Skin contact
Ingestion
Inhalation

Flush with plenty of water for at least 15 minutes. Seek medical attention.
Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
Seek medical attention immediately.
Move to fresh air. Provide oxygen or artificial respiration if necessary. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flash point °C
Flash point °F
Method
Autoignition temperature °C
Autoignition temperature °F
Flammability Limits (% in Air)
Upper
Lower

11
52
See closed cup
No data available
No data available
No data available
1%

Suitable extinguishing media
Dry chemical, Foam.

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Fire and Explosion Hazards
Containers may vent or burst under extreme or prolonged fire conditions. Vapors are heavier than air and may travel along the ground to an ignition source and ignite. Vapors may be ignited by heat, sparks or flames. Vapors may cause explosion or explosion when exposed to an ignition source. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches.

Sensitivity to shock
Sensitivity to static discharge
No information available.
No information available.

6. ACCIDENTAL RELEASE MEASURES

Clean-up methods - small spill
Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Evacuate area of unprotected and unnecessary personnel. Avoid using sparking tools. Soak up excess with absorbent material. Collect and contain for disposal.

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Product name CLEARFLEX

Evaporation Rate
Water solubility
Partition Coefficient
Boiling point/range °C
Boiling point/range °F
Melting point/range °C
Melting point/range °F
Flash point °C
Flash point °F

No data available
No data available
No data available
110-121
231-250
No data available
No data available
11
52

7. HANDLING AND STORAGE

Clean-up methods - large spill
Do not allow product to reach sewage system, soil surface or ground water, or any water course. Notify proper authorities if entry occurs. Shut off source of leak if safe to do so. Dike or dam large spills. Remove with vacuum trucks or pump to storage vessel. Soak up excess with absorbent material. Collect and contain for disposal.
Handling
Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapors. Heat, flames and sparks. Containers can contain explosive vapors or residues. Thoroughly wash hands and exposed skin after handling. Do not take internally. Keep container closed when not in use.
Storage
Store in temperatures below 110 degrees F. Store upright. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Light Aliphatic Solvent				
Toluene	200 ppm	300 ppm	50 ppm	

Ventilation and Environmental Controls
Provide local exhaust ventilation.

Hygiene measures
General industrial hygiene practice

Respiratory protection
None required if adequate ventilation is provided
Hand Protection
Impervious gloves.

Eye protection
Safety glasses, Goggles.

Skin and body protection
None necessary under normal conditions

Other Protective Equipment
A safety shower and eye wash station should be available for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Color
Odor
Odor Threshold
Specific Gravity
Vapor pressure
Density
Vapor density

Liquid
Clear
No information available
No information available
No data available
No data available
7.31 lbs/gal
No data available

10. STABILITY AND REACTIVITY

Stability
Stable.
Conditions to avoid
Avoid extreme temperatures.
Incompatibility
Acids, Amines, Bases, Oxidizers, Strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide, Various hydrocarbons.

Polymerization
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Chemical Name	LD50 (oral/rat)	LD50 (dermal/rabbit)	LC50 (Inhalation/rat)
Light Aliphatic Solvent	5000 mg/kg	3000 mg/kg	
64742-88-8			
Toluene	630 mg/kg	830 mg/kg	1.0 mg/L
108-88-3			2670 ppm

Synergistic Products
None known
Potential health effects
Sensitization
Chronic toxicity
Mutagenic effects
Teratogenic effects
Reproductive toxicity
Target Organ Effects
Carcinogenic effects
See table below

None known
None known
See Section 2
None known
None known
Female reproductive toxic.
None known

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Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Light Aliphatic Naphtha Solvent Toluene	Not Listed Listed	Not Listed Listed	Not Listed Developmental

Chemical Name	ENECS	DSL	NDSL	TSCA
Light Aliphatic Solvent Toluene	X	X	X	X

CPRC
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

HMIS

Health - 2
Flammability - 3
Physical Hazard - 0

Prepared By
Michael Katz, Regulatory Affairs
Specialist

The information accumulated herein is believed to be accurate, but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

12. ECOLOGICAL INFORMATION

Toluene
Microtox Data
Photobacterium phosphoreum EC50=19.7 mg/L (30 min)
Water Flea Data
water flea EC50=11.3 mg/L (48 h)
water flea EC50=310 mg/L (48 h)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products
Dispose in accordance with federal, state, and local regulations. Do not contaminate water by disposal

14. TRANSPORTATION INFORMATION

DOT
UN1133 Adhesives containing a flammable liquid (Naphtha), Class 3, PG III
Exception: (Flammable Liquids PG II not more than 1.0L) Consumer Commodity ORM-D

IDG
UN1133 ADHESIVES containing a flammable liquid (Toluene), Class 3, PG II (Consumer commodity, ORM-D)

IMDG/IMO
UN1133 ADHESIVES, containing a flammable liquid (Toluene), Class 3, PG II

ATA
UN1133 Adhesives containing flammable liquid (Toluene), Class 3, PG II

MEX
UN1133 ADHESIVOS que contienen líquidos inflamables (Naphtha), 3, III

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Toluene	Exempt