Material Safety Data Sheet

degussa.
Construction Chemicals

PRIMER 733

Version 2.0 03/15/2004

1. PRODUCT AND COMPANY INFORMATION

Company	:	**Degussa Building Systems** 889 Valley Park Drive Shakopee, MN 55379
Telephone	:	952-496-6000
Emergency telephone number	:	(800) 424-9300 (703) 527-3887 (Outside Continental US)
Product name	:	PRIMER 733
MSDS ID No.	:	10602
TSCA Inventory	:	All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian DSL	:	All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).
Product Use Description	:	Coating

2. HAZARDOUS INGREDIENTS

Chemical	CAS No.	TLV	STEL	PEL	CEIL	Weight %
TOLUENE	108-88-3	50 ppm	150 ppm	N.E.	300 ppm	15.00 - 40.00 %
PROPYLENEGLYCOL METHYLETHER ACETATE	108-65-6	N.E.	N.E.	N.E.	N.E.	10.00 - 30.00 %
XYLENE	1330-20-7	100 ppm	150 ppm	100 ppm	300 ppm	1.00 - 5.00 %
TOLUENE DIISOCYANATE MIX	26471-62-5	N.E.	N.E.	N.E.	N.E.	0.00 - 0.20 %

3. HAZARDS IDENTIFICATION

	HEALTH	FLAMMABILITY	PHYSICAL HAZARD
HMIS® Rating	2	2	0

WHMIS Class : B2

Primary Routes of Entry :
Ingestion
Inhalation
Eye contact
Skin contact
Skin absorbtion

Effects of Overexposure

Inhalation : Harmful by inhalation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations can cause CNS-depression and narcosis. Prolonged inhalation can be harmful.

Skin : Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure can cause skin irritation and redness. Skin sensitization or allergic

reaction can occur in some individuals. Components of the product may be absorbed into the body through the skin.

Eyes : Can cause slight irritation, redness, tearing and blurred vision.

Ingestion : Intake can cause gastrointestinal irritation, nausea, and vomiting. Moderate toxicity.

Chronic exposure : Chronic overexposure to xylene can cause damage to the formed elements of blood [e.g., red cells, which carry oxygen]. Chronic inhalation of toluene vapors can produce depression of the central nervous system, leading to fainting, difficulty in breathing, nausea, vomiting, and memory loss. This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") can be harmful or fatal. This product may contain a small amount (<0.1%) of toluene diisocyanate. NIOSH, NTP and IARC list toluene diisocyanate as a suspected carcinogen. Note also that prolonged repeated exposure to isocyanates can lead to skin sensitization. For persons so sensitized even brief exposures to an isocyanate can produce reddening, swelling, rash, or blisters. Similarly, prolonged and repeated exposure to isocyanates can lead to respiratory sensitization. In such individuals, brief exposures to isocyanates at levels well below established exposure limits can produce chemical asthma and nonspecific asthmatic conditions.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
TOLUENE	Not classifiable as a human carcinogen.	Inadequate data.	N.E.	N.E.
PROPYLENEGLYCOL METHYLETHER ACETATE	N.E.	N.E.	N.E.	N.E.
XYLENE	Not classifiable as a human carcinogen.	Classification not possible from current data.	N.E.	N.E.
TOLUENE DIISOCYANATE MIX	N.E.	No data.	Anticipated carcinogen.	N.E.

4. FIRST AID MEASURES

Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.

Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : 64.99 °F (18.33 °C) Method: Taglibue C. C.

Autoignition temperature : no data available

Lower explosion limit	:	1.0 %(V)
Upper explosion limit	:	7.1 %(V)
Suitable extinguishing media	:	alcohol-resistant foam water fog carbon dioxide (CO2) dry chemical
Fire and Explosion Hazards	:	Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Heating can release vapours which can be ignited. Solid stream of water or foam can cause frothing.
Special Fire-fighting Procedures	:	Can be ignited by heat, sparks or flame. At higher temperature pressure build up in sealed containers. Use water to cool containers exposed to fire. As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	:	Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Take action to eliminate source of leak. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled Liquid. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling	:	Keep out of reach of children. Use only in area provided with appropriate ventilation. Take precautionary measures against static discharges. Ground and bound containers when transferring material. For personal protection see section 8.
Storage	:	Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection	:	Wear as appropriate: safety glasses with side-shields goggles face-shield
Hand protection	:	Wear Chemically resistant gloves.
Body Protection	:	Wear as appropriate: Chemically resistant clothes preventive skin protection

Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygienic Practices	:	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	:	Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	:	amber
Physical State	:	liquid
Odor	:	strong solvent
pH	:	no data available
Odor Threshold	:	no data available
Vapor Pressure	:	no data available
Vapor Density	:	Heavier than air
Boiling point/range	:	232.00 - 484.00 °F (111.11 - 251.11 °C)
Freeze Point	:	no data available
Water solubility	:	slightly soluble
Specific Gravity	:	1.07
Viscosity	:	90 cps
Evaporation rate	:	Faster than Butyl acetate
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	584 g/l

10. STABILITY AND REACTIVITY

Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	Heat, flames and sparks. Direct sources of heat. Strong sunlight for prolonged periods. Prolonged exposure to high temperatures
Materials to avoid	:	oxidizing agents
Hazardous decomposition	:	Oxides of carbon

products

Hazardous polymerization : Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

	Type	Value	Species	Exposure time
Product	LC50	no data available		
Component				
TOLUENE	LC50	no data available		
PROPYLENEGLYCOL METHYLETHER ACETATE	LC50	no data available		
XYLENE	LC50	no data available		
TOLUENE DIISOCYANATE MIX	LC50	no data available		

Acute oral toxicity

	Type	Value	Species
Product	LD50 (Oral)	no data available	
Component			
TOLUENE	LD50 (Oral)	636 mg/kg	
PROPYLENEGLYCOL METHYLETHER ACETATE	LD50 (Oral)	no data available	
XYLENE	LD50 (Oral)	4,300 mg/kg	rat
TOLUENE DIISOCYANATE MIX	LD50 (Oral)	4,130 mg/kg	rat

Acute dermal toxicity

	Type	Value	Species
Product	LD50 (Dermal)	no data available	
Component			
TOLUENE	LD50 (Dermal)	20 mg/kg	
PROPYLENEGLYCOL METHYLETHER ACETATE	LD50 (Dermal)	no data available	
XYLENE	LD50 (Dermal)	> 1,700 mg/kg	rabbit
TOLUENE DIISOCYANATE MIX	LD50 (Dermal)	1,950 mg/kg	

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT	:	Proper shipping name	PAINT
		UN-No	**1263**
		Class	3
		Packaging group	II
		Primary Label	Flammable liquid
IATA	:	Proper shipping name	PAINT
		UN-No	**1263**
		Class	3
		Packaging group	II
		Primary Label	Flammable liquid

15. REGULATORY INFORMATION

SARA 311/312 (RTK)
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

FIRE HAZARD IMMEDIATE (ACUTE) HEALTH HAZARD DELAYED (CHRONIC) HEALTH HAZARD

SARA 313
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Weight %	CAS No.	Chemical Name
15.00 - 40.00 %	108-88-3	TOLUENE
1.00 - 5.00 %	1330-20-7	XYLENE
0.00 - 0.20 %	26471-62-5	TOLUENE DIISOCYANATE MIX

CERCLA
CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

RQ	CAS No.	Chemical Name
1,000 lbs	108-88-3	TOLUENE
100 lbs	1330-20-7	XYLENE
100 lbs	26471-62-5	TOLUENE DIISOCYANATE MIX

TSCA Section 12(b) Export Notification
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

CAS No.	Chemical Name

There are no TSCA 12(b) Chemicals in this product.

California Proposition 65
The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

CAS No.	Chemical Name
26471-62-5	TOLUENE DIISOCYANATE MIX
108-88-3	TOLUENE
56-23-5	CARBON TETRACHLORIDE
71-43-2	BENZENE

16. OTHER INFORMATION

Legend : N.E. - Not Established
TLV - Threshold Limit Value
STEL - Short Term Exposure Limit
PEL - Permissible Exposure Limit
CEIL - Ceiling

Prepared By : Environment, Health and Safety Department

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End of MSDS.