

COMPANY IDENTITY: CSD/STARTEX  
PRODUCT IDENTITY: STARTEX LACQUER RETARDER  
NEW MSDS DATE: 06/14/2002  
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MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.  
THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
IMPORTANT: Read this MSDS before handling & disposing of this product.  
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: STARTEX LACQUER RETARDER  
COMPANY IDENTITY: CSD/STARTEX  
COMPANY ADDRESS: P O BOX 3087  
COMPANY CITY: CONROE, TX 77305  
COMPANY PHONE: 1-936-756-1065  
CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 35-40% XYLENES (1330-20-7) [215-535-7],  
15-25% N-BUTYL ACETATE (123-86-4) [204-658-1],  
15-20% 2-BUTOXYETHANOL (111-76-2) [203-905-0],  
5-10% ETHYLBENZENE (100-41-4) [202-849-4],  
5-10% N-BUTANOL (71-36-3) [200-751-6]

Number in parentheses is CAS #, number in brackets is European EC #.

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R11 Highly Flammable.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R20/65 Harmful by inhalation, may cause lung damage if swallowed.

SAFETY STATEMENTS:

S16 Keep away from sources of ignition. No smoking.  
S29 Do not empty into drains.  
S24/25 Avoid contact with skin and eyes.

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#### SECTION 4. FIRST AID MEASURES

##### EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

##### SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.  
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

##### INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration. CALL A PHYSICIAN immediately!

##### SWALLOWING:

If swallowed, CALL A PHYSICIAN IMMEDIATELY! Do NOT induce vomiting. Have patient lie down & keep warm. Vomiting may lead to pneumonitis, which may be fatal.

#### SECTION 5. FIRE FIGHTING MEASURES

##### EXTINGUISHING MEDIA

NFPA Class B extinguishers (Carbon Dioxide or foam) for Class I C liquid fires.

##### SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.  
Do not enter confined fire-space without full bunker gear.  
(Helmet with face shield, bunker coats, gloves & rubber boots).  
Use NIOSH approved positive-pressure self-contained breathing apparatus.

##### UNUSUAL EXPLOSION AND FIRE PROCEDURES

FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Keep container tightly closed.  
Isolate from oxidizers, heat, sparks, electric equipment & open flame.  
Closed containers may explode if exposed to extreme heat.  
Applying to hot surfaces requires special precautions.  
Empty container very hazardous! Continue all label precautions!

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

##### CONTAINMENT TECHNIQUES

Stop spill at source. Dike area & contain.

##### CLEAN-UP PROCEDURES:

Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

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#### SECTION 7. HANDLING AND STORAGE

##### HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.  
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.  
Do not get in eyes, on skin or clothing.  
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.  
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

##### STORAGE

Do not store above 49 C/120 F. Store large amounts in structures made for OSHA Class I C liquids  
Keep container tightly closed  
& upright when not in use to prevent leakage.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

##### EXPOSURE CONTROLS

Ventilate to keep vapors of this material below 25 ppm.  
If over TLV, in accordance with 29 CFR 1910.134,  
use NIOSH approved positive-pressure self-contained breathing apparatus.  
Consult Safety Equipment Supplier. Use explosion-proof equipment.

##### VENTILATION

LOCAL EXHAUST	: Necessary
MECHANICAL (GENERAL)	: Acceptable
SPECIAL	: None
OTHER	: None

##### PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

##### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each workshift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

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#### SECTION 9. PHYSICAL DATA

APPEARANCE : Liquid, Water-White  
ODOR : Ester  
BOILING RANGE : 122 133 170 C / 252 272 339 F  
AUTO IGNITION TEMPERATURE : 300 C / 572 F (Lowest Component)  
LOWER FLAMMABLE LIMIT IN AIR (% by vol): 1.3  
FLASH POINT (TEST METHOD): 27 C / 81 F (TCC) (Lowest Component)  
FLAMMABILITY CLASSIFICATION: Class I C  
GRAVITY @ 60 F :  
API : 30.9  
SPECIFIC GRAVITY (Water=1) : .871  
POUNDS/GALLON : 7.257  
VOC'S (>0.44 Lbs/Sq In) : 71.1 Vol. % / 619.5 g/L / 5.160 Lbs/Gal  
TOTAL VOC'S (TVOC) : 100.0 Vol. % / 871.2 g/L / 7.257 Lbs/Gal  
NONEXEMPT VOC'S (CVOC) : 100.0 Vol. % / 871.2 g/L / 7.257 Lbs/Gal  
HAZARDOUS AIR POLLUTANTS (HAPS) : 69.6 Wt. % / 606.4 g/L / 5.051 Lbs/Gal  
VAPOR PRESSURE (mm of Hg)@20 C 5.8  
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) 5.8  
VAPOR DENSITY (air=1) : 3.6  
WATER ABSORPTION : Appreciable  
REFRACTIVE INDEX : 1.450  
MIXED ANILINE POINT (Acid Insol): 10 C / 50 F

#### SECTION 10. STABILITY & REACTIVITY

##### STABILITY

Stable

##### CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

##### MATERIALS TO AVOID

Isolate from strong oxidizers such as permanganates, chromates & peroxides.

##### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

##### HAZARDOUS POLYMERIZATION

Will not occur.

#### SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Xylenes	1330-20-7	100 ppm	100 ppm A4	Yes
n-Butyl Acetate	123-86-4	150 ppm	150 ppm	No
2-Butoxyethanol	111-76-2	50 ppm S	20 ppm S	Yes
Ethylbenzene	100-41-4	100 ppm	100 ppm A3	Yes
n-Butanol	71-36-3	100 ppm S	25 ppm S	No

In addition to EPA Hazardous Air Pollutants showing 'Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%):  
Benzene, Toluene, Cumene

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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Xylenes	1330-20-7	None Known	150 ppm
n-Butyl Acetate	123-86-4	None Known	200 ppm
Ethylbenzene	100-41-4	None Known	125 ppm
n-Butanol	71-36-3	50 ppm	25 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.  
Absorption thru skin increases exposure.  
Primary irritation to eyes, redness, tearing, blurred vision.  
Liquid can cause eye burns . Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation.  
Acute overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

SWALLOWING:

Harmful or fatal if swallowed.  
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGREGATED

CONDITIONS AGGREGATED

Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs.  
Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Liver tumors have been reported in laboratory mice.  
Overexposure may create cancer risk.  
Leukemia been reported in humans from Benzene.  
This product contains less than 49 ppm of Benzene.  
Not considered hazardous in such low concentrations.  
Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus.

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#### SECTION 12. ECOLOGICAL INFORMATION

##### MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA
Ethylene Glycol Butyl Ether	111-76-2	LOWEST KNOWN LD50 (ORAL) 320.0 mg/kg (Rabbits)
Ethylene Glycol Butyl Ether	111-76-2	LOWEST KNOWN LC50 (VAPORS) 700 ppm (Mice)
Ethylene Glycol Butyl Ether	111-76-2	LOWEST KNOWN LD50 (SKIN) 440.0 mg/kg (Rabbits)

##### AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:  
Tidewater Silversides 1250 ppm or mg/L (96 hour exposure).  
Keep out of sewers and natural water supplies.

##### MOBILITY

This material is a mobile liquid.

##### DEGRADABILITY

This product is partially biodegradable.

##### ACCUMULATION

This product does not accumulate or biomagnify in the environment.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws.  
If questions exist, contact the appropriate agencies.

#### SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: RQ, Paint Related Material  
(Contains: Xylene, Ethylbenzene), 3, UN1263, PG-III  
DRUM LABEL: (FLAMMABLE LIQUID)  
IATA / ICAO: RQ, Paint Related Material  
(Contains: Xylene, Ethylbenzene), 3, UN1263, PG-III  
IMO / IMDG: RQ, Paint Related Material  
(Contains: Xylene, Ethylbenzene), 3, UN1263, PG-III  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

#### SECTION 15. REGULATORY INFORMATION

##### EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health, Fire

All components of this product are on the TSCA list.  
SARA Title III Section 313 Supplier Notification  
This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

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SECTION 15. REGULATORY INFORMATION (CONTINUED)

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
*Xylenes	1330-20-7	39 (311,312,313,RCRA)	100
n-Butyl Acetate	123-86-4	21 (311,312)	5000
*2-Butoxyethanol	111-76-2	19 (313)	None
*Ethylbenzene	100-41-4	9 (311,312,313,RCRA)	1000
*n-Butanol	71-36-3	9 (311,312,313,RCRA)	5000

IF > 250 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF XYLENE IS EXCEEDED.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause cancer:  
Ethylbenzene

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:  
Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:  
HEALTH (NFPA): 2  
HEALTH (HMIS): 3  
FLAMMABILITY: 3  
REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications.

All 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 as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.