

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: PRIST ACRYLIC, PLASTIC & GLASS CLEANER AEROSOL
COMPANY IDENTITY: CSD/STARTEX
COMPANY ADDRESS: P O BOX 3087
COMPANY CITY: CONROE, TX 77305
COMPANY PHONE: 1-936-228-0865
CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 75-85% WATER (7732-18-5),
5-15% ISOPROPANOL (67-63-0) [200-661-7],
0-10% PENTANE (109-66-0) [203-692-4],
0- 2% 2-BUTOXYETHANOL (111-76-2) [203-905-0],
0-.01% AQUA AMMONIA (1336-21-6)
Number in parentheses is CAS #, number in brackets is European EC #.

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R12 Extremely Flammable.
R18 In use, may form flammable/explosive vapor-air mixture.
R65 Harmful: may cause lung damage if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY STATEMENTS:

S7 Keep container tightly closed.
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition. No smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29 Do not empty into drains.
S33 Take precautionary measures against static discharges.
S45 In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where possible).
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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 c 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.

SWALLOWING:

Do NOT induce vomiting. Have patient lie down & keep warm. Vomiting may lead to severe damage to esophagus which may be fatal.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

NEPA Class B extinguishers (Carbon Dioxide or foam) for Class I A 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

EXTREMELY 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

Keep unprotected personnel away. Wear appropriate personal protective equipment given in Section 8. Ventilate spill area. Stop spill at source. Dike & 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.

OTHER PRECAUTIONS

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.

Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

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

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.
Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.
When using, loosen bung slowly to relieve pressure.
Do not store above 38 C/100 F. Store large amounts in structures made for OSHA Class I A liquids. Keep container tightly closed & upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION

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

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

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.

SECTION 9. PHYSICAL DATA

APPEARANCE :	Liquid, Water-White		
ODOR :	Ammonia		
BOILING RANGE :	33 96 172 C	/	93 206 342 F
AUTO IGNITION TEMPERATURE :	343 C /	650 F	(Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.1 (Lowest Component)		
FLASH POINT (TEST METHOD):			
FLAMMABILITY CLASSIFICATION:	Class I A		
GRAVITY @ 68/68 F / 20/20 C :			
API :	19.0		
SPECIFIC GRAVITY (Water=1) :	0.940		
POUNDS/GALLON :	7.832		
VOC'S (>0.44 Lbs/Sq In) :	16.7 Vol. % /	156.7 g/L /	1.305 Lbs/Gal
TOTAL VOC'S (TVOC) :	23.0 Vol. % /	170.3 g/L /	1.418 Lbs/Gal
NONEXEMPT VOC'S (CVOC) :	23.0 Vol. % /	170.3 g/L /	1.418 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS) :	0.0 Wt. % /	0.0 g/L /	0.000 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C	24.8		
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	8.2		
VAPOR DENSITY (air=1) :	0.7		
WATER ABSORPTION :	Complete		
pH (Neutrality) :	11.0		

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable under normal conditions.

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, Nitrogen Oxide vapors from burning.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Water	7732-18-5	None Known	None Known	No
Isopropanol	67-63-0	400 ppm	200 ppm A4	No
Pentane	109-66-0	1000 ppm	600 ppm	No
2-Butoxyethanol	111-76-2	50 ppm S	20 ppm S	No
Aqua Ammonia	1336-21-6	50 ppm	25 ppm	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Isopropanol	67-63-0	None Known	400 ppm
Pentane	109-66-0	None Known	750 ppm
Aqua Ammonia	1336-21-6	None Known	35 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.
This product may cause allergic skin reaction.
Absorption thru skin increases exposure.
Primary irritation to eyes, redness, tearing, blurred vision.
Liquid can cause eye irritation. 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:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%. This product contains less than 5 ppm of Benzene. Not considered hazardous in such low concentrations. Absorption thru skin may be harmful.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA LOWEST KNOWN LD50 (ORAL)
Ethylene Glycol Butyl Ether	111-76-2	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:
Daphnia Pulex 2.4 ppm or mg/L (48 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

Processing, use or contamination may change the waste management options.
Recycle / dispose of observing national, regional, state, provincial and local
health, safety & pollution laws. If in doubt, contact appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

IF CONTAINER HAS > PRODUCT RQ (SEE SECTION 15) PUT "RQ," BEFORE SHIPPING NAME.
DOT SHIPPING NAME: Aerosols, Flammable, 2.1, UN1950
DRUM LABEL: (FLAMMABLE GAS)
IATA / ICAO: Aerosols, Flammable, 2.1, UN1950
IMO / IMDG: Aerosols, Flammable, 2.1, UN1950
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 126

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.

SECTION 15. REGULATORY INFORMATION (CONTINUED)

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ (LBS)
*2-Butoxyethanol	111-76-2	< 2 (313)	None
Aqua Ammonia	1336-21-6	< 1 (311,312)	1000

STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

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): 1, HEALTH (HMIS): 2, FLAMMABILITY: 4, REACTIVITY: 0
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

See Section 3 for Risk & Safety Statements. 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. Unless updated, this Material Safety Data Sheet is valid until