

SECTION I - IDENTIFICATION

1.1 - TRADE NAME:	Cleaner CL-20	Cleaner for ABS / PVC / CPVC Plastic Pipe and Fittings
1.2 - SUPPLIER	Linghai G-Good Adhesives Co., Ltd. Shiniu Village, Yanjiang Town, Linhai City, Zhejiang, P.R. China Tel. 86-576-85696851	MANUFACTURER: Linghai G-Good Adhesives Co., Ltd. Shiniu Village, Yanjiang Town, Linhai City, Zhejiang, P.R. China Tel. 86-576-85696851

SECTION 2 - CHEMICAL COMPOSITION

	CAS#	CONCENTRATION	SYMBOL	R phrases	S phrases	Exposure Limit Value
Cyclohexanone	108-94-1	60 - 80%	Xn	10-20	7-29	25 PPM Skin
Acetone	76-64-1	5 - 20%	F Xi	11-36-37-38	23-26-33-39	750 PPM
Methyl Ethyl Ketone (MEK)	78-93-3	5 - 15%	F Xi	11-36-66-67	2-7-9-16-51	200 PPM

SECTION 3 - RISK/HAZARD IDENTIFICATION

- 3.1 Human: -Highly flammable; keep away from sources of ignition. Vapors are heavier than air and may travel to sources of ignition at or near ground or lower level(s) and flash back.
- Irritating, do not breathe vapors. -See also section 11.
- Environment: -Emission of volatile organic compounds (VOC's).
-Spills or leaks can result in ground water contamination.

SECTION 4 - FIRST AID MEASURES

- 4.1 Contact with eyes: -Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
- Skin contact: -Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
- Inhalation: -Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
- Ingestion: -Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.
- Symptoms: -See section 11.

SECTION 5 - FIREFIGHTING MEASURES

- 5.1 Suitable Extinguishing Media: -Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.
- 5.2 Unsuitable Extinguishing Media: -Water spray or stream.
- 5.3 Exposure Hazards: -Carbon monoxide, carbon dioxide, hydrogen chloride and smoke
- 5.4 Combustion Products: -Carbon monoxide, carbon dioxide, hydrogen chloride and smoke
- 5.5 Protection for Firefighters: -Self-contained breathing apparatus or full-face positive pressure airline masks.

SECTION 6 - MEASURES FOR ACCIDENTAL RELEASE (LEAKS/SPILLAGE)

- 6.1 Personal precautions: -Keep away from heat, sparks and open flame.
-Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.
-Prevent contact with skin or eyes (see section 8).
- 6.2 Environmental Precautions: -Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
- 6.3 Methods for Cleaning up: -Clean up with sand or other inert absorbent material.
-Transfer to a closable vessel (Metal or polyethylene [PE])
- 6.4 Materials not to be used for clean up: -Liquid(s)

SECTION 7 - STORAGE AND HANDLING

- 7.1 Handling: -Avoid breathing of vapor, avoid contact with eyes, skin and clothing.
-Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.
-Do not eat, drink or smoke while handling.
- 7.2 Storage: -Store in ventilated room or shade between 5°C and 44°C (40°F - 110°F).
-Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.
-Keep container tightly closed when not in use.
-Follow all precautionary information on container label, product bulletins and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

- 8.1 System Design: If ventilated cabinet, enclosure or fume hood is necessary, average airflow should be at least 100 FPM (50.8 cm/sec).
- 8.2 Monitoring: Maintain breathing zone airborne concentrations below exposure limits (see section 2).
- 8.3 Breathing Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed in section 2. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment (filter A).
- Skin Protection: Prevent contact with the skin as much as possible. Polyethylene or PVA coated rubber gloves should be used for frequent dipping/immersion. Use of latex/nitrile surgical gloves or solvent-resistant barrier cream should provide adequate protection when normal solvent-cement welding practices and procedures are used for making plastic welded pipe joints.
- Eye Protection: Avoid contact with eyes, wear splash proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:	Clear, thin liquid		
9.2 Odor:	Ketone		
9.3 P.H.	N.A.P.		
9.4 Boiling Point:	57° to 67°C (133° to 151°F) Based on first boiling component:		
9.6 Flash Point:	-6° to -4°C (21° to 25°F) T.C.C.		
9.7 Auto flammability:	465°C (869.0°F): Acetone		
9.8 Vapor Pressure:	190 mm Hg @ 20°C (68°F): Acetone		
9.9 Solubility:	Solvent portion completely soluble in water. Resin portion separates out.		
9.10 Other Data:	Vapor Density:	>2 (Air = 1)	Specific Gravity @23°C ± 2° (73°F ± 3.6°) Typical 0.795 ± 0.040
	Evaporation Rate:	> 1.0 (BUAC = 1)	Flammability Limits: LEL: 1.1%
	Viscosity:	Water-thin @23°C ± 2°	(percent by volume) UEL: 12.8%

SECTION 10 - STABILITY AND REACTIVITY

10.1 Stability:	Stable
10.2 Conditions to avoid:	Keep away from heat, sparks, open flame and other ignition sources.
Effects:	When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.
10.3 Materials to avoid:	Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.
10.4 Hazardous decomposition products:	None in normal use. See item 10.2 for reactivity/combustion effects.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Acute symptoms and effects:

Inhalation:	Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
Eye Contact:	Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctiva inflammation on contact with the liquid.
Skin Contact:	Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
Ingestion:	May cause nausea, vomiting, diarrhea and mental sluggishness.
Chronic (long-term) effects:	None known to humans

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Mobility:	In normal use, emission of volatile organic compounds (VOC's) to the air takes place. Typically at a rate of 550 Grams/Liter. Minimal other adverse effects include possible ground water contamination from release to soil, sewers, drains or water course.
12.2 Degradability:	Biodegradable
12.3 Accumulation:	Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert. Can be disposed of by controlled incineration. Excessive quantities should not be permitted to enter drains, sewers or water courses. Empty containers should be air dried before disposing.

SECTION 14 - TRANSPORT INFORMATION

14.1 UN Number	UN1993	14.7 ADR/RID CLASSIFICATION:	
14.2 UK Road & Sea Freight (IMO) Classification:	3.2	Class:	3.5c
14.3 Substance Classification Number:		Item Number:	
14.4 Class:	3	14.8 ICAO/IATA CLASSIFICATION:	
14.5 Packing Group:	II	Class:	3
14.6 Proper Shipping Name:	Flammable Liquid, n.o.s.	Sub-Risk:	None
Technical Name (if applicable):	Acetone, Methyl Ethyl	Packing Group:	II
	Ketone	Proper Shipping Name:	Flammable Liquid, n.o.s

SECTION 15 - REGULATORY INFORMATION

15.1 Precautionary Label Information:	Highly Flammable, Irritant	
15.2 Symbols:	F, Xi	
15.3 Risk Phrases:	R-10 Flammable	R-36/37/38 Irritating to eyes, respiratory system and skin.
	R-11 Highly Flammable	R-66 repeated exposure may cause skin dryness or cracking.
	R-20 Harmful by inhalation	R-67 Vapors may cause drowsiness and dizziness.
15.4 Safety Phrases:	S-2 Keep out of reach of children.	S-24/25/26 Avoid contact with skin and eyes.
	S-7 Keep container tightly closed when not in use.	S-29 Do not empty into drains.
	S-9 Keep container in a well-ventilated place.	S-33 Take precautionary measures against static discharges.
	S-16 Keep away from sources of ignition. No smoking.	S-51 Use only in well ventilated areas.