MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/ UNDERTAKING

PRODUCT NAME	CF-33F(Winter)-2
SUPPLIER	[redacted] Shandong Prov,China [redacted]

2. COMPOSITION/ INFORMATION ON INGREDIENTS

CHEMICAL FAMILY Resin solution

COMPONENT	CAS NUMBER	CONCENTRATION
Ethyl acetate	141-78-6	49 - 51
Acrylic polymer	25035-69-2	51 - 49
AIBN	78-67-1	0.1～0.3

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	IRRITANT FLAMMABLE
EYE	Will cause eye irritation.
SKIN CONTACT	Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.
INHALATION	Low order of toxicity.
INGESTION	Low oral toxicity.

4. FIRST-AID MEASURES

EYE	Irrigate with eyewash solution or clean water until pain is relieved.
SKIN CONTACT	Wash skin with soap and water. Remove grossly contaminated clothing, including shoes, and launder before re-use. Discard shoes.
INHALATION	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.
INGESTION	Treat symptomatically and supportively. Get medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	CO2; Dry Chemical; Foam; Water Fog
SPECIAL FIREFIGHTING PROCEDURES	Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.; Cool exposed equipment with water spray.
FIRE & EXPLOSION HAZARDS	Dangerous fire hazard when exposed to heat or flame. The vapouris heavier than air and may travel a considerable distance to a source of ignition and flashback.
HAZARDOUS COMBUSTION PRODUCTS	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
LOWER EXPLOSION LIMIT	2.0(%)
UPPER EXPLOSION LIMIT (%)	19.0
AUTOFLAMMABILITY	> 260 °C
FLASH POINT	-4 °C

6. ACCIDENTAL RELEAS E MEASURES

SPILL AND LEAK PROCEDURES	Shut off ignition sources. Stop leak if you can do it without risk. For small liquid spills, take up with sand or other absorbent material. For larger spills, dam far ahead of spill for later disposal. No smoking, flames or flares in hazard area! Keep unnecessary people away.

For safety and environmental precautions, please review entire Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

HANDLING/ STORA GE	Store at room temperature. Product contains hazardous volatile ingredients which could accumulate in the unvented headspace of drums or bulk storage vessels. Open drums in ventilated area. Avoid breathing vapours.
SENSITIVE TO STATIC ELECTRICITY	Yes
SPECIAL SENSITIVITY	Keep away from heat.
SENSITIVITY TO MECHANICAL IMPACT	No

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	EXPOSURE LIMITS
Ethyl acetate	ACGIH-TWA: 400 ppm (Skin)

VENTILATION REQUIREM ENTS	Sufficient to keep vapors below TLV exposure limits.
EYE PROTECTION REQUIREM ENTS	Goggles
GLOVE REQUIREM ENTS	Impervious neoprene or rubber gloves are recommended.
CLOTHING REQUIREM ENTS	Uniforms, coveralls, or a lab coat should be worn.
WASH REQUIREM ENTS	Wash before eating, drinking, or using toilet facilities.
RESPIRATORY REQUIREM ENTS	Use approved respirator if required. Self-contained breathing apparatus in emergency and non-routine situations.

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR PREPARATION	Preparation.
PHYSICAL FORM	Liquid
COLOUR	Colourless
ODOUR	petrol-like.
BOILING POINT	> 60 °C
SOLUBILITY IN WATER	Insoluble
VISCOSITY	2500 - 3000 mPa•s
RELATIVE DENSITY	0.87
EVAPORATION RATE	> 1 (n-Butyl Acetate = 1)
VAPOUR DENSITY (air=1)	2
VOLATILES	49 - 51 %
VOLATILE ORGANIC COMPOUNDS	400 - 500 g/litre
AUTOFLAMMABILITY	> 260 °C
FLASH POINT	-4 °C

10. STABILITY AND REACTIVITY

STABILITY	Stable
HAZARDOUS DECOMPOSITION PRODUCTS	Not applicable

11. TOXICOLOGICAL INFORMATION

EYE	Will cause eye irritation.
SKIN	Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.
INHALATION	Low order of toxicity.
INGESTION	Low oral toxicity.

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE	The toxicological properties of this product have not been fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or inhale.
TARGET ORGANS	None known.
SKIN SENSITIZATION	No.
POSSIBLE BIRTH DEFECT HAZARD	No.
CARCINOGEN	No.
PRODUCT INFORMATION	Not established.

12. ECOLOGICAL INFORMATION

POTENTIAL EFFECT ON ENVIRONM ENT	Unknown.
PERSISTENCE AND DEGRADABILITY	Unknown.
ECOTOXICITY	Unknown.

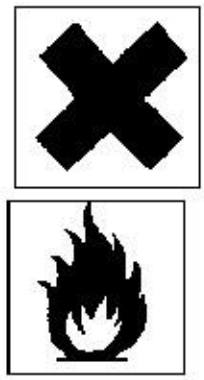
13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS	Waste disposal should be in accordance with existing Community,National and local regulations.
EMPTY CONTAINER WARNINGS	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

14. TRANSPORT INFORMATION (See also section 9)

IATA CLASSIFICATION	
PROPER SHIPPING NAME	ADHESIVES
HAZARD CLASS	3
SUBSIDIARY HAZARD CLASS	
U.N. NUMBER	UN1133
PACKAGING GROUP	II
IMDG CLASSIFICATION	
PROPER SHIPPING NAME	ADHESIVES
HAZARD CLASS	3.2
SUBSIDIARY HAZARD CLASS	
U.N. NUMBER	UN1133
PACKAGING GROUP	II
ADR/RID	
PROPER SHIPPING NAME	ADHESIVES
HAZARD CLASS	3
SUBSIDIARY HAZARD CLASS	
U.N. NUMBER	UN1133
PACKAGING GROUP	II

15. REGULATORY INFORMATION

EC INDICATION OF DANGER	IRRITANTHIGHLY FLAMMABLE
EC SYMBOL	
RISK PHRASES	R36 - Irritating to eyes. R66 - Repeated exposure may cause skin dryness or cracking. R67 - Vapours may cause drowsiness and dizziness. R11 - Highly flammable.
SAFETY PHRASES	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. S37 - Wear suitable gloves.
EINECS	All components of this product are listed in EINECS or ELINCS.

Reference should be made to any relevent local or national health, safety, and environmental legislation. This information does not constitute indication of suitability for specific uses.

16. OTHER INFORMATION

FOR REGULATORY INFORMATION, CONTACT:	[redacted]