

Safety Data Sheet

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

Product identifier

Product Name RA Top Coat

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Nails Modified
Uses advised against No information available

Manufacturer/Supplier

Company Jinhua KVS Chemical Co.,Ltd
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2. HAZARDS IDENTIFICATION

Risk Phrases Irritant for respiratory eyes and skin

Highly flammable

Primary route of exposure Skin contact, inhalation of vapours

Symptoms associated with use:

Inhalation : Possible drowsiness and dizziness. Risk of respiratory problems.

Skin contact: Redness, pain. The skin absorbs part of the ingredients of this product.

Can cause dry or chapped skin

Eye contact: Redness, watering, blurred vision. Risk of irritant effect on eyes.

Ingestion: Health risk even in small quantities. Product should not come into contact with foodstuffs.

- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 3
Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**



Health = 1
 Fire = 3
 Reactivity = 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

	INCI Name	CAS No.	%
	ALCOHOL	64-17-5	30—40
	BUTYL ACETATE	123-86-4	20—30
	NITROCELLULOSE	9004-70-0	10—18
	ACRYLATES COPOLYMER	25035-69-2	10—18
	ETHYL ACETATE	141-78-6	5—12
	ISOPROPYL ALCOHOL	67-63-0	2—5
	ACETYL TRIBUTYL CITRATE	77-90-7	2—5
			100

4. FIRST AID MEASURES

• **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Seek medical treatment.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

• **After eye contact:**

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

• **After swallowing:**

Rinse out mouth with water.

If symptoms persist consult doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

- **for minor fires:** Chemical powders, carbon dioxide and other extinguishing gases may be suitable for minor fires.
- **recommended:** Special foam for polar liquids.
- **to avoid:** Water without additives.

Prevention:

Avoid naked flames or other sources of ignition in areas where product is used; protect electrical equipment (risk of explosive zones). No smoking. Dry residue stay highly flammable (contain nitrocellulose)

Special procedure:

Exercise caution when fighting any chemical fire. Use water to keep the containers exposed to fire cool.

Avoid increase in pressure causing the release of the drum lid.

Fire often produces a dense black smoke; vapours heavier than air; exposure to decomposition products constitutes a serious health hazard. Do not inhale smoke.

Prevent fire-fighting effluent from entering drains, watercourses and/or environment.

Special equipment:

Self-contained breathing apparatus to protect against toxic gases produced by thermal decomposition.

6. ACCIDENTAL RELEASE MEASURES

Personal

Remove all possible sources of ignition and thoroughly ventilate premises. Do not inhale fumes. Avoid skin and eye contact. See § 7 et 8.

precautions:

Environmental

Prevent product from entering drains or watercourses.

precautions:

If product contaminates ground water, rivers or drains (or is likely to do so), notify the relevant authorities, following the statutory procedures.

Cleaning / taking up:

Clean up any spills as soon as possible, using a non-combustible absorbent material to collect it, for example: sand, earth, vermiculite, diatomic earth.

Collect material into suitable drums for disposal in accordance with regulations (see Section 13).

It is preferable to clean with detergents, do not use solvents.

7. HANDLING AND STORAGE

•Handling:

•Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

Avoid contact with eyes.

•Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

•**Storage:**

•**Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Store only in the original receptacle.

•**Information about storage in one common storage facility:**

Store away from foodstuffs.
Store away from flammable substances.

•**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

•Additional information about design of technical systems: No further data; see item 7.

• Components with limit values that require monitoring at the workplace:	
141-78-6 ETHYL ACETATE	
PEL (USA)	1400 mg/m ³ , 400 ppm
REL (USA)	1400 mg/m ³ , 400 ppm
TLV (USA)	1440 mg/m ³ , 400 ppm
WEL (Great Britain)	Short-term value: 400 ppm Long-term value: 200 ppm
123-86-4 BUTYL ACETATE	
PEL (USA)	710 mg/m ³ , 150 ppm
REL (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm
WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
67-63-0 ISOPROPYL ALCOHOL	
PEL (USA)	980 mg/m ³ , 400 ppm
REL (USA)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV (USA)	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm
WEL (Great Britain)	BEI Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm

•**Additional information:** The lists that were valid during the creation were used as basis.

• **Based on the composition shown in section 2, the following measures are suggested for occupational safety measure**

• **Personal protective equipment**

• **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles



Appearance:	Translucent liquid, viscous.	
Odour:	Solvent.	
Boiling Point/Range (°C):	> 77 °C	
Flash Point (°C):	4 °C	
Explosive Limits % Vol:	lower	upper
Ethyl Acetate	2,1	11,5
Butyl Acetate	1,2	7,5
Isopropyl Alcohol	2	12,7
Specific gravity:	0,95 - 1,05 gr/cm ³ at 20 °C	
Solubility in water:	Not miscible.	
Viscosity at 25 °C (mpas):	variable	

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to be avoided:	Heating
Materials to avoid:	Alkali metals, strong acids/alkalis, fluorine, hydrides, strong oxidizing agents, water with air and light
Hazardous decomposition:	Thermal decomposition may liberate carbon and nitrogen oxides
Further Information	Light sensitive, sensitive to air; unsuitable working materials: various plastics Explosible with air in a vaporous/gaseous state

11. TOXICOLOGICAL INFORMATION

• Acute toxicity

• LD/LC50 values that are relevant for classification:		
141-78-6 ETHYL ACETATE		
Oral	LD50	5620 mg/kg (rabbit)
Inhalative	LC50/4 h	1600 mg/l (rat)
123-86-4 BUTYL ACETATE		
Oral	LD50	13100 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21.0 mg/l (rat)
9004-70-0 NITROCELLULOSE		
Oral	LD50	>5000 mg/kg (mouse) >5000 mg/kg (rat)
67-63-0 ISOPROPYL ALCOHOL		
Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

• Primary irritant effect

- **on the skin:** Irritating effect possible.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

12. ECOLOGICAL INFORMATION

• Additional ecological information:

• General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Material Avoid release to the environment.

disposal: Dispose of this material at hazardous or special waste collection point or give to an agreed waste collector / transporter for elimination or treatment.
Dispose in a safe manner in accordance with local regulations.

Container: Empty containers /drums for storage or transport before giving to an agreed collector. Keep label (Flame, Class 3) on the container and dispose of it as hazardous waste.

14. TRANSPORT INFORMATION

Proper shipping name Paint related material **UN** 1263

ADR/RID:

H.I.: 33 **ADR/RID:** 3

Packaging Group II

IMDG

IMCO: 3 **EMS** 3-05

Packaging Group II **Flashpoint** 4 °C

IATA/IACO

ICAO Label: Flammable liquid **Packaging Group** II

15. REGULATORY INFORMATION

• Sara

- Section 355 (extremely hazardous substances):
None of the ingredient is listed.

- Section 313 (Specific toxic chemical listings):
67-63-0 ISOPROPYL ALCOHOL

• **Hazard-determining components of labelling:** Not applicable.

• **Risk phrases:**

Flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness.

• **Safety phrases:**

Keep out of the reach of children.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

If swallowed, seek medical advice immediately and show this container or label.

Dispose of this material and its container to hazardous or special waste collection point.

• **National regulations**

• **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. OTHER INFORMATION

DISCLAIMER OF LIABILITY

The Information contained in this Material Safety Data Sheet was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

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