

SAFETY DATA SHEET

RANGER ALCOHOL INKS AND BLENDING SOLUTION

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME RANGER ALCOHOL INKS AND BLENDING SOLUTION
SUPPLIER Personal Impressions
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
1-METHOXY-2-PROPANOL	203-539-1	107-98-2	10-30%	R10
ETHANOL	200-578-6	64-17-5	70-90%	F;R11
PROPAN-2-OL	200-661-7	67-63-0	0.5-1.5%	F;R11 Xi;R36 R67

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Highly flammable.

CLASSIFICATION F;R11.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Get medical attention immediately!

INGESTION

DO NOT induce vomiting. Get medical attention immediately. Provide rest, warmth and fresh air.

SKIN CONTACT

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Larger fires: Water spray. Foam. Small fires: Dry chemicals.

SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed immediately or cooled with water. Avoid water in straight hose stream; will scatter and spread fire.

UNUSUAL FIRE & EXPLOSION HAZARDS

Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

SPECIFIC HAZARDS

By fire, toxic gases may be formed (COx, NOx).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

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SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. Absorb with inert, damp, non-combustible material, then flush area with water. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Avoid inhalation of vapours.

STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Store in tightly closed original container in a cool, dry well-ventilated place.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
ETHANOL	WEL	1000 ppm	1920 mg/m3		
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3
1-METHOXY-2-PROPANOL	WEL	100 ppm(Sk)	375 mg/m3(Sk)	150 ppm(Sk)	560 mg/m3(Sk)

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

ENGINEERING MEASURES

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours. Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Coloured liquid		
COLOUR	Varying		
ODOUR	Odour of alcohol		
SOLUBILITY	Partially soluble in water.		
RELATIVE DENSITY	< 1	VAPOUR DENSITY (air=1)	> 1
EVAPORATION RATE	> 1 (ButAc=1)	FLASH POINT (°C)	20°C TCC (Tag closed cup).

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Amines. Alkalis. Strong oxidising substances. Acids.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire, toxic gases (CO, CO₂, NO_x) may be formed.

11 TOXICOLOGICAL INFORMATION

INHALATION

Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness.

RANGER ALCOHOL INKS AND BLENDING SOLUTION**INGESTION**

May cause discomfort if swallowed. May cause stomach pain or vomiting. Drowsiness, dizziness, disorientation, vertigo.

SKIN CONTACT

Prolonged contact may cause dryness of the skin.

EYE CONTACT

Splashes may irritate.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS	3	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	PRINTING INK	ADR CLASS	Class 3: Flammable liquids.
UN NO. ROAD	1210	ADR LABEL NO.	3
ADR CLASS NO.	3	CEPIC TEC(R) NO.	30GF1-I+II, 30GF1-sp
ADR PACK GROUP	II	RID PACK GROUP	II
HAZCHEM CODE	3YE	IMDG CLASS	3
RID CLASS NO.	3	EMS	F-E, S-D
UN NO. SEA	1210	UN NO. AIR	1210
IMDG PACK GR.	II	AIR PACK GR.	II
MARINE POLLUTANT	No.		
ICAO CLASS	3		

15 REGULATORY INFORMATION**LABELLING**

Highly Flammable

RISK PHRASES

R11 Highly flammable.

SAFETY PHRASES

S2 Keep out of the reach of children
 S16 Keep away from sources of ignition - No smoking.
 S46 If swallowed, seek medical advice immediately and show this container or label.
 S51 Use only in well-ventilated areas.

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16 OTHER INFORMATION**REVISION COMMENTS**

This is first issue.

REVISION DATE 10-2005

RANGER ALCOHOL INKS AND BLENDING SOLUTION

RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.