

MATERIAL SAFETY DATA SHEET

In accordance with 1999/45/EC and 67/548/EC.

PRODUCT **RG-WBM DRY-WIPE WHITEBOARD MARKER**

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION



1.1. Product identifier: RG-WBM dry-wipe marker, whiteboard marker

1.2. Relevant identified uses of the substance or mixture and use advised against

Uses: Marking ink for use in writing instruments
 Not to be used for: -

1.3. Details of the samples of the Safety Data Sheet

Company name: Retreeva Global
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 Farthing Road,
 Ipswich
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SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Danger symbols: F
 R-Phrases: R11
 Danger identification: Highly flammable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation	EINECS	CAS	Conc'n %	Symbols	P-Phases
Denatured Ethanol	-	64-17-5	<67%	F	R11
Iso-Propanol (Proppan-2-ol)	200-661-7	67-63-0	<15%	F, Xi	R11, R36, R37
Pigments	-	-	<10%	-	Not classified*
Resin and additives	-	-	17-22%	-	Not classified*
Surface additive	-	-	<2%	-	Not classified*

*Not classified as hazardous according to EC Directive 67/548/EC or 1999/45/EC

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SECTION 4. HAZARDS IDENTIFICATION

3.1. Classification of the substance or mixture

Danger symbols: F
 R-Phrases: R11
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SECTION 5. FIRST AID MEASURES

5.1. First aid measures:

Skin contact Wash skin with soap and water. Remove contaminated clothing, which should be washed or dry cleaned before reuse. If irritation persists, obtain medical attention.

Eye contact Wash eyes with copious amounts of water. Continue to rinse for at least 15 minutes and obtain medical attention.

Inhalation Remove from exposure - in severe cases obtain medical attention.

Ingestion Give plenty to drink if ingestion is suspected. Do not induce vomiting. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

5.2. Symptoms and effects:

Skin contact May cause irritation

Eye contact May cause irritation

Inhalation In high concentrations, may cause headache, nausea, drowsiness, dizziness.

Ingestion Ingestion of large amounts of may cause nausea, vomiting, abdominal pain

SECTION 6. FIRE FIGHTING MEASURES

Hazard Flash point 12°C (closed cup). Explosive limits: lower limit 3.5% to 19% upper limit.

Ext'ing. media Use water spray, foam, CO2, or dry powder.

Special exposure hazards Closed container may rupture if strongly heated. Cool containers with water spray in order to prevent pressure build-up, auto-ignition or explosion. Vapours may flow along surfaces to distant ignition sources and flash back.

PPE Wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

SECTION 7. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with skin and eyes. Ventilate contaminated area thoroughly. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk.

Environment precautions Do not allow runoff to sewer. If this occurs inform authorities.

Method of clean up Absorb spillages with vermiculite, dry sand or earth and transfer into marked sealable drums. Flush contaminated area with plenty of water. Retain washings as contaminated waste.

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SECTION 8. HANDLING AND STORAGE

Handling	Product is not intended nor should be allowed to maintain prolonged skin contact. Ensure good ventilation or the provision of local exhaust ventilation where possible. Avoid contact with eyes, skin and clothing, avoid ingestion and inhalation. Avoid sources of ignition.
Storage	Keep away from direct sunlight and other sources of heat or ignition. Keep away from oxidising agents. Do not smoke in storage areas. Keep container tightly closed and in a well-ventilated place.
Product Transfer	Low flash point – requires attention to equipment used in transport and use so as to avoid sparks and other sources of ignition. Take precautionary measures against static discharges. Earth all equipment. Avoid splash filling. Do not empty into drains. Inks be stored for at least 24 hours at around room temperature and then agitated prior to assembly into marker pens.

SECTION 9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product limit values	DENATURED ETHANOL EH40 (UK) OES: 1000PPM Period: 8 hours OES: 1900mg/m ³ Period: 8 hours ISO-PROPANOL EH40 (UK) LTEL: 999mg/m ³ Period: 8 hours STEL: 1250mg/m ³
Respiratory protection	Avoid inhalation of the vapours when the product is being used. Local exhaust ventilation (LEV) should be used in conjunction with other control measures as a means of removing material accidentally released. Type approved RPE for organic vapours if required.
Hand protection	Wear chemical resistant butyl rubber gloves
Eye protection	Wear safety glasses. Provide eyewash station
Skin protection	Wear suitable protective clothing and anti-static safety shoes. Provide safety shower.

SECTION 10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Coloured liquid
Physical state	Liquid
Odour	Characteristic odour of alcohol solvent
Viscosity	5-14CP
pH	4-12
Volatility	Approx. 80%
Miscibility	Solvents miscible with water
Boiling point	78.3°C
Flash point	12°C
Auto-ignition temp	365°C
Explosive limits	Lower limit 3.5% to 19% upper limit (volume % in air)

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SECTION 11. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to avoid	Heat, flames and other sources of ignition
Materials to avoid	Reacts strongly with oxidising agents. Can also react with acid chlorides, acid anhydrides, aluminium and copper. It may attack some forms of plastic and rubber.
Hazardous decomposition products	Fire produces smoke, carbon monoxide, carbon dioxide and water.

SECTION 12. TOXICOLOGICAL INFORMATION

Acute effects	May cause irritation
Sensitisation	Allergic skin reaction / dermatitis could occur with misuse of this preparation
Repeated dose toxicity	-
CMR effects	-

SECTION 13. ECOLOGICAL INFORMATION

Eco toxicity	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Mobility	Mobile liquid. Prevent contamination of soil or water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
Persistence and degradability	Solvents are biodegradable.
Bio accumulative potential	This product shows a low bio accumulation potential.

SECTION 14. DISPOSAL INFORMATION

Substance/ Preparation	Do not pour into drains. Obtain the services of a waste disposal contractor for advice. Otherwise, send to a registered top or dispose of in a safe area under controlled conditions of incineration to comply with local and national regulations
Water residues Contaminated packaging	As above Consider recycling or incineration

SECTION 15. TRANSPORT INFORMATION

UN No.	1993
Proper Shipping Name	Flammable liquid n.o.s. (Contains Ethanol)
ADR, IATA, IMDG	3
Hazard class	
Packaging group	2

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SECTION 16. REGULATORY INFORMATION

Hazard Symbols	F
R-phases	R11 – Highly flammable
S-phases	S2 - Keep out of reach of children S7 – Keep container tightly closed S16 – Keep away from sources of ignition. No smoking.

**SECTION 17. OTHER INFORMATION**

List of R phases	R36 - Irritating to eyes R67 – Vapours may cause drowsiness and dizziness
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