

SAFETY DATA SHEET

According to Regulation (EU) 2015/830

RN Mark Fast Dry Solvent Ink

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name | RN Mark Fast Dry Solvent Ink BSF-BLACK

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

Description | Printing Ink.

1.3. Details of the supplier of the safety data sheet

Company	RN Mark INC.
Address	25- 16 Sims Cres. Richmond Hill, Ontario L4B 2P1, Canada
Telephone	+1 (647) 931 7236
Fax	+1 (647) 931 7240
Email	info@mmark.com
Email address of the competent person	info@mmark.com

1.4. Emergency telephone number

Emergency telephone number | +1 (416) 419 5512
24hrs

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xi; R37-41 R10 Symbols: Xi: Irritant.
Main hazards	Flammable. Irritating to respiratory system. Risk of serious damage to eyes.
2.1.2. Classification - EC 1272/2008	Flam. Liq. 3: H226; Eye Dam. 1: H318; STOT SE 3: H335;

2.2. Label elements

Hazard pictograms



Signal Word

Danger

Hazard Statement

Flam. Liq. 3: H226 - Flammable liquid and vapour.
Eye Dam. 1: H318 - Causes serious eye damage.
STOT SE 3: H335 - May cause respiratory irritation.

Precautionary Statement: Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.

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2.2. Label elements

Precautionary Statement: Response	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary Statement: Storage	P403+P235 - Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Other hazards	No data available.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Ethyl lactate	607-129-00-7	97-64-3	202-598-0		20 - 50%	R10 Xi; R37-41	
2-methoxy-1-methylethyl acetate	607-195-00-7	108-65-6	203-603-9		20 - 50%	R10	

EC 1272/2008

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Treat as for inhalation if any signs of poisoning are present.
Ingestion	DO NOT INDUCE VOMITING. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapour may cause shortness of breath.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin. Repeated exposure may cause skin dryness or cracking.
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. Ingestion may cause nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	Seek medical attention.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention.
Ingestion	Seek medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Extinguishing media. Alcohol resistant foam. Carbon dioxide (CO2). Dry powder or water fog. Water spray, fog or mist. Do NOT use water jet.
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5.2. Special hazards arising from the substance or mixture

Flammable liquid and vapour. Vapours are heavier than air. Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Wear: Self-contained breathing apparatus. Protective equipment.

Further information

No data available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

6.2. Environmental precautions

Advise local authorities if large spills cannot be contained. Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

Further information

No data available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Ensure adequate ventilation of the working area.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from sources of ignition - No smoking. Store from 0° to 35° C.

7.3. Specific end use(s)

Used in Industrial applications.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Control parameters.

8.1.1. Exposure Limit Values

2-methoxy-1-methylethyl acetate	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m3: 274
	WEL 15 min limit ppm: 100	WEL 15 min limit mg/m3: 548
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls

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8.2. Exposure controls

	No data available.
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing. Suitable foot protection e.g. boots. Wear suitable protective clothing. Wear suitable gloves and eye/face protection.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Skin protection - Other	Wear suitable protective clothing and gloves.
Respiratory protection	Self-contained breathing apparatus.
Thermal hazards	No data available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Various
Odour	Mild
Odour threshold	No data available
pH	No data available
Melting point	No data available
Initial boiling point	110 °C
Flash point	40 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.9 (H ₂ O = 1 @ 20 °C)
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Slightly soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	836 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

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10.4. Conditions to avoid

Heat, sparks and open flames.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No data available.

Further information

No data available.

SECTION 11: Toxicological information

11.1.4. Toxicological Information

2-methoxy-1-methylethyl acetate	Oral Rat LD50: 50 >2000 mg/kg	
Ethyl lactate	Oral Rat LD50: >8,200 mg/kg Inhalation Rat LC50/4 h: no data available	Dermal Rabbit LD50: >5000 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

2-methoxy-1-methylethyl acetate	Daphnia EC50/48h: 500 mg/l	Fish LC50/96h: 180 mg/l
Ethyl lactate	Daphnia EC50/48h: 560 mg/l	Fish LC50/96h: 320 mg/l

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

Partition coefficient

RN Mark Fast Dry Solvent Ink No data available

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

Further information

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This product and it's container must be disposed of in accordance with all local and national regulations.

SECTION 14: Transport information

Hazard pictograms

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Hazard pictograms



14.1. UN number

UN1210

14.2. UN proper shipping name

PRINTING INK

14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards No
Marine pollutant No

ADR/RID

Hazard ID 30
Tunnel Category (D/E)

IMDG

EmS Code F-E S-D

IATA

Packing Instruction (Cargo) 366
Maximum quantity 220 L
Packing Instruction (Passenger) 355
Maximum quantity 60 L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Other information

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Other information

Revision	This document differs from the previous version in the following areas: 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 2 - Precautionary Statement: Disposal.
Text of risk phrases in Section 3	R10 - Flammable R37 - Irritating to respiratory system. R41 - Risk of serious damage to eyes.
Text of Hazard Statements in Section 3	Flam. Liq. 3: H226 - Flammable liquid and vapour. Eye Dam. 1: H318 - Causes serious eye damage. STOT SE 3: H335 - May cause respiratory irritation.
Maximum content of VOC	836 g/l.
Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.